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Foreign Commodity Production Forecasting

NASA - CR - 167446
**A Joint Program for
Agriculture and
Resources Inventory
Surveys Through
Aerospace
Remote Sensing**

October 1981

NORMAL CROP CALENDARS VOLUME 3: THE CORN AND SOYBEAN STATES OF ILLINOIS, INDIANA, AND IOWA

(E82-10221) NORMAL CROP CALENDARS. VOLUME
3: THE CORN AND SOYBEAN STATES OF ILLINOIS,
INDIANA, AND IOWA (Lockheed Engineering and
Management) 79 p HC A05/ME A01 CSCI 02C

William L. West, III

N82-23594

This draft document consists of technical working material that has not been formally reviewed. It has been prepared in this manner in order to provide timely documentation to personnel supporting the Foreign Commodity Production Forecasting project of the Agriculture and Resources Inventory Surveys Through Aerospace Remote Sensing program and to provide others in the technical community with a means of staying informed of project tasks.

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16. Abstract This document consists of the state and crop reporting district crop calendars for Iowa, Illinois, and Indiana, three of the principal corn and soybean province states within the United States. These crop calendars are compiled for the Foreign Commodity Production Forecasting project of the Agriculture and Resources Inventory Surveys Through Aerospace Remote Sensing program.					
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VOLUME 3: THE CORN AND SOYBEAN STATES OF
ILLINOIS, INDIANA, AND IOWA

Job Order 72-415

This report describes activities of the Foreign Commodity
Production Forecasting project of the AgRISTARS program.

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HOUSTON, TEXAS

October 1981

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PREFACE

The Agriculture and Resources Inventory Surveys Through Aerospace Remote Sensing is a multiyear program of research, development, evaluation, and application of aerospace remote sensing for agricultural resources, which began in fiscal year 1980. This program is a cooperative effort of the U.S. Department of Agriculture, the National Aeronautics and Space Administration, the National Oceanic and Atmospheric Administration (U.S. Department of Commerce), the Agency for International Development (U.S. Department of State), and the U.S. Department of the Interior.

The work which is the subject of this document was performed by the Earth Resources Applications Division, Space and Life Sciences Directorate, Lyndon B. Johnson Space Center, National Aeronautics and Space Administration and Lockheed Engineering and Management Services Company, Inc. The task performed by Lockheed Engineering and Management Services Company, Inc., were accomplished under Contract NAS 9-15800.

This volume is the third in a series. Volumes previously published are as follows.

Normal Crop Calendars, Volume 1: Assembly and Application of Historical Crop Data to a Standard Product. JSC-16813, SR-LO-00484, LEMSCO-15033, August 1980.

Normal Crop Calendars, Volume 2: The Spring Wheat States of Minnesota, Montana, North Dakota, and South Dakota. JSC-16814, SR-LO-00485, LEMSCO-15034, August 1980.

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1. INTRODUCTION

The third volume of normal crop calendars for the Foreign Commodity Production Forecasting (FPCF) project of the Agriculture and Resources Inventory Surveys Through Aerospace Remote Sensing (AgRISTARS) program contains the state and crop reporting district (CRD) crop calendars for Illinois, Indiana, and Iowa, three of the major corn and soybean producing states within the United States. These calendars (figs. 1-10, 12-21, and 23-32) are the standard products as described in the first volume of the series.



These standard products are the first to include CRD maps (figs. 11, 22, and 33) of the states of interest and the first to be derived from plots generated by the GPLOT5 Statistical Analysis System (SAS) program.* Inclusion of CRD maps presents the user with a self-contained and relatively complete document, eliminating the need for other sources in using the calendars. This volume includes 10 crop calendars for each of the 3 states of interest — 1 state-wide and 1 for each CRD — with attendant explanatory material (table 1) and CRD maps.

The crop calendars presented are not identical as to the number of crops or stages, but represent those crops and stages for which data in one form or another and in various degrees of completeness were available. Individuals using this series for the first time are referred to Volume 1 of the series for background information. The information used in Volume 3 was extracted from the sources listed in section 2 of this document.

*The GPLOT5 SAS is an automated plotting program which plots all stages of a crops's development through time for the length of the record contained in the data base. Both the data base and the SAS programs associated with normal crop calendar development will be described separately in forthcoming volumes.

TABLE 1.- CROP CALENDAR EXPLANATION SHEET

TIME LINES

-  = Time line based on insufficient data to establish a reliable MAP and 50 percent point of stage.
-  = Heavy line indicates the MAP (5/95 criterion). Thin line shows the earliest and latest the stage has occurred. The 7 shows average 50 percent of stage.

CROP STAGE CODES

B - Bloom	M - Mature (ripe)
Bo - Boot	Ob - Open bolls
C - Cut (hay crops only)	P - Plant (includes transplanted crops)
D - Dent	Po - Pod
E - Emergence	S - Shed (natural or man-made)
H - Harvest (includes synonymous terms - dug, picked, etc.)	T - Turning
Hd - Head	Ta - Tassel
J - Joint	Ti - Tillering
	To - Top
	VC - Vines cut

NOTES

1. E/TI - Stages given in this format indicate the available information was given in a combined form.
2. It is possible to have multiple harvests from a single crop. When and where this occurs will be indicated by a numeral in front of the code to indicate which harvest.
3. Where a crop is area specific, either as deviating significantly from the normal or is limited to a specific crop reporting district (CRD), an area indicator will be shown directly beneath the crop name. This area indicator denotes that the time line applies to that area only; it does not mean that the crop is not grown elsewhere.

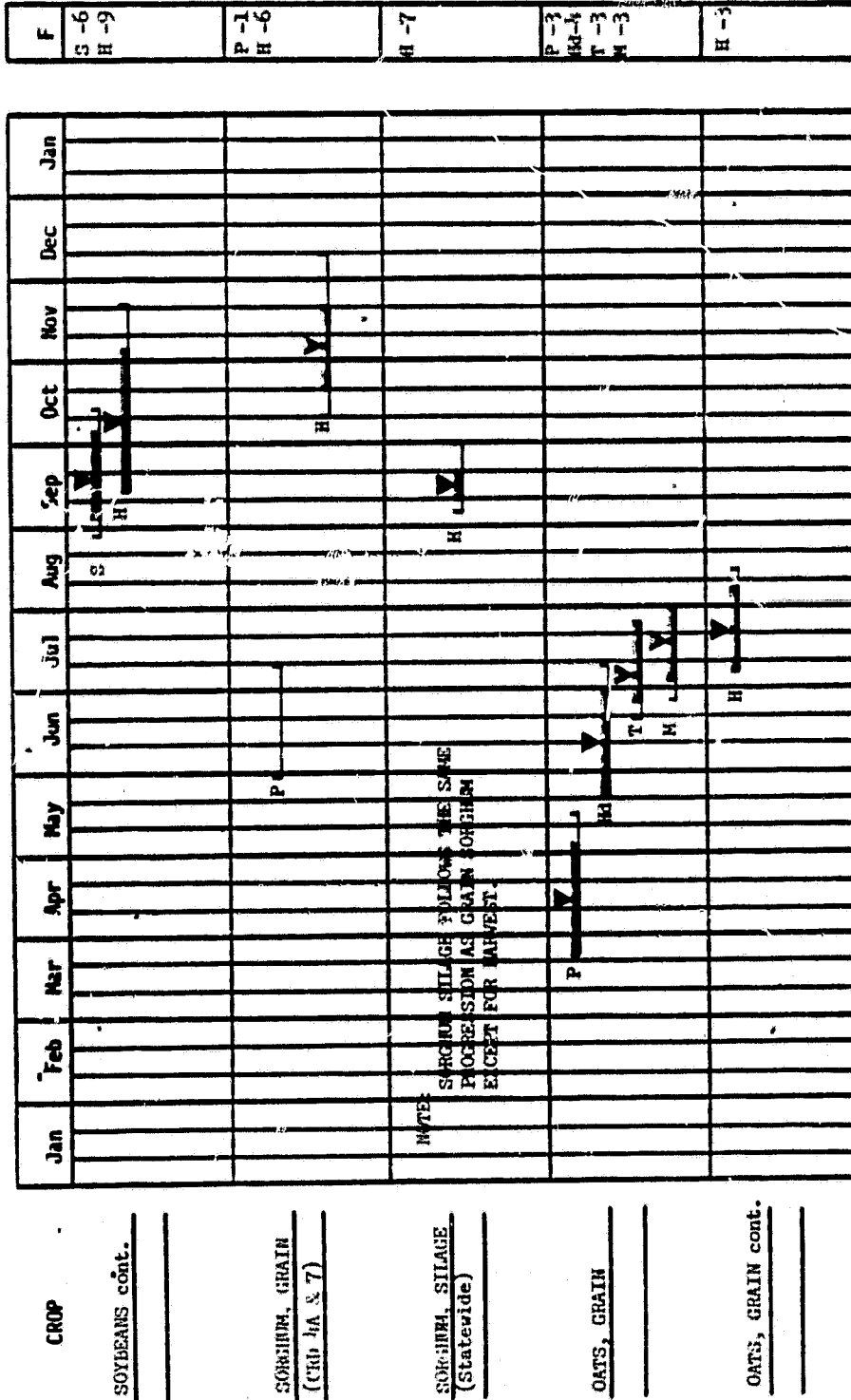
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Date 10 December 1981
Page 2 of 4 Pages

CROP CALENDAR

(Stage Development Timespan)

Area UNITED STATES
Pol/Sub ILLINOIS - STATE cont.



Source:

Figure 1.- Continued.

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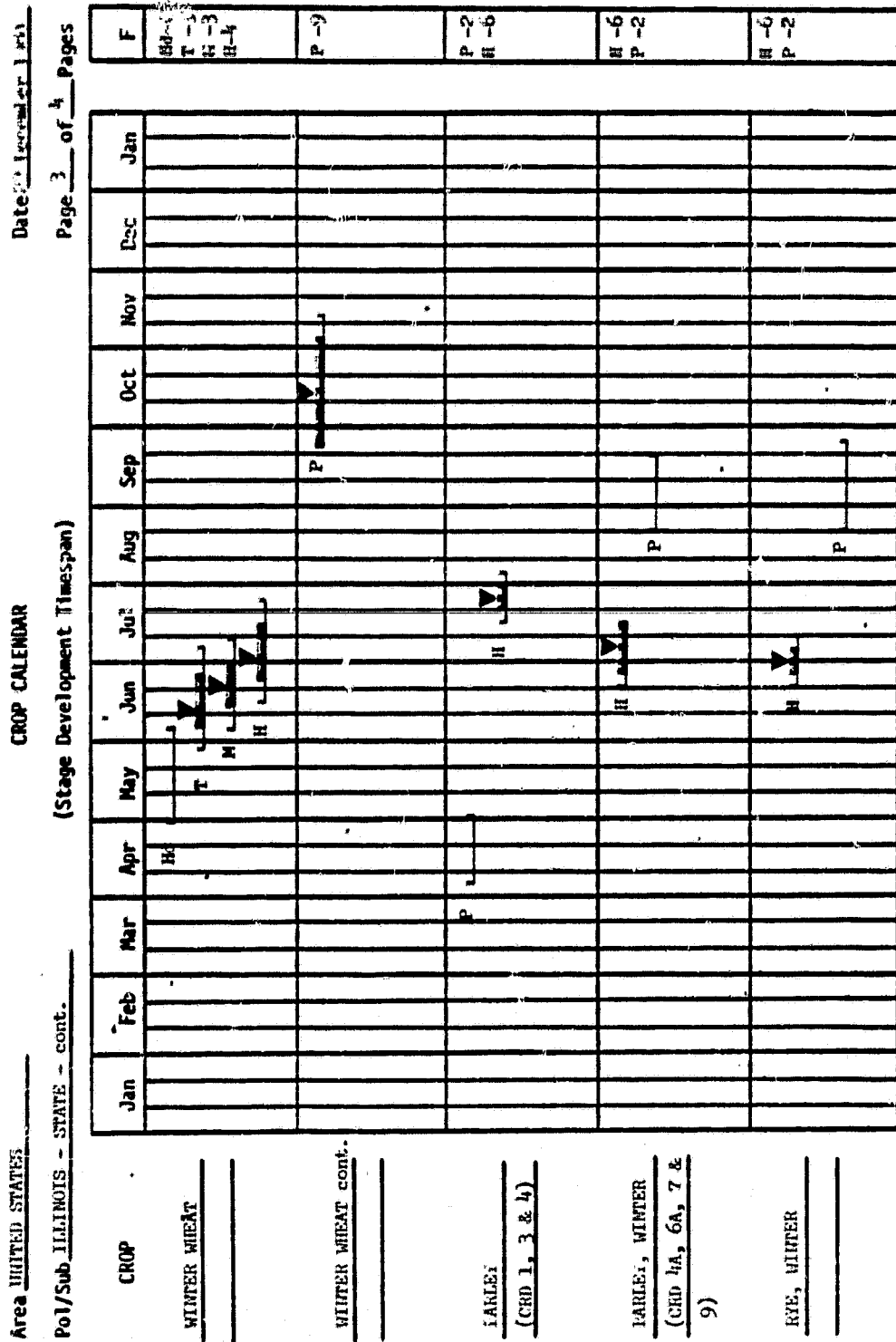


Figure 1.- Continued.

Area **UNITED STATES**

CROP CALENDAR

Date 30 December 1941

Pol/Sub ILLINOIS - STATE - cont.

(Stage Development Timespan)

Page 4 of 4 Pages

CROP	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
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OTHER HAY - CLOVER													

Source:

Figure 1.- Concluded.

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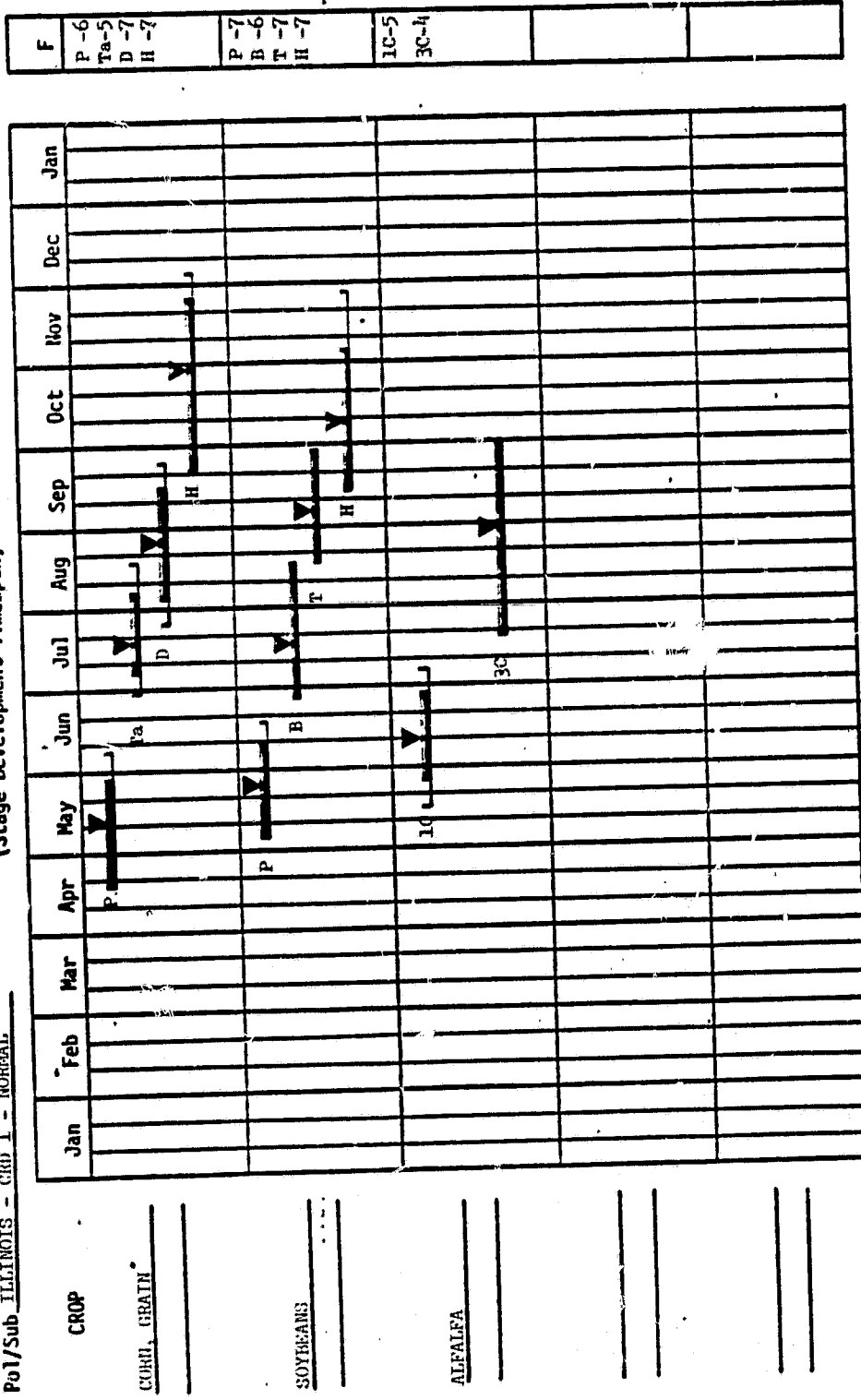
Page 1 of 1 Pages

CROP CALENDAR

(Stage Development Timespan)

Area UNITED STATES

Pol/Sub ILLINOIS - CRD 1 - NORMAL



Source: U.S. Department of Agriculture unpublished statistics.

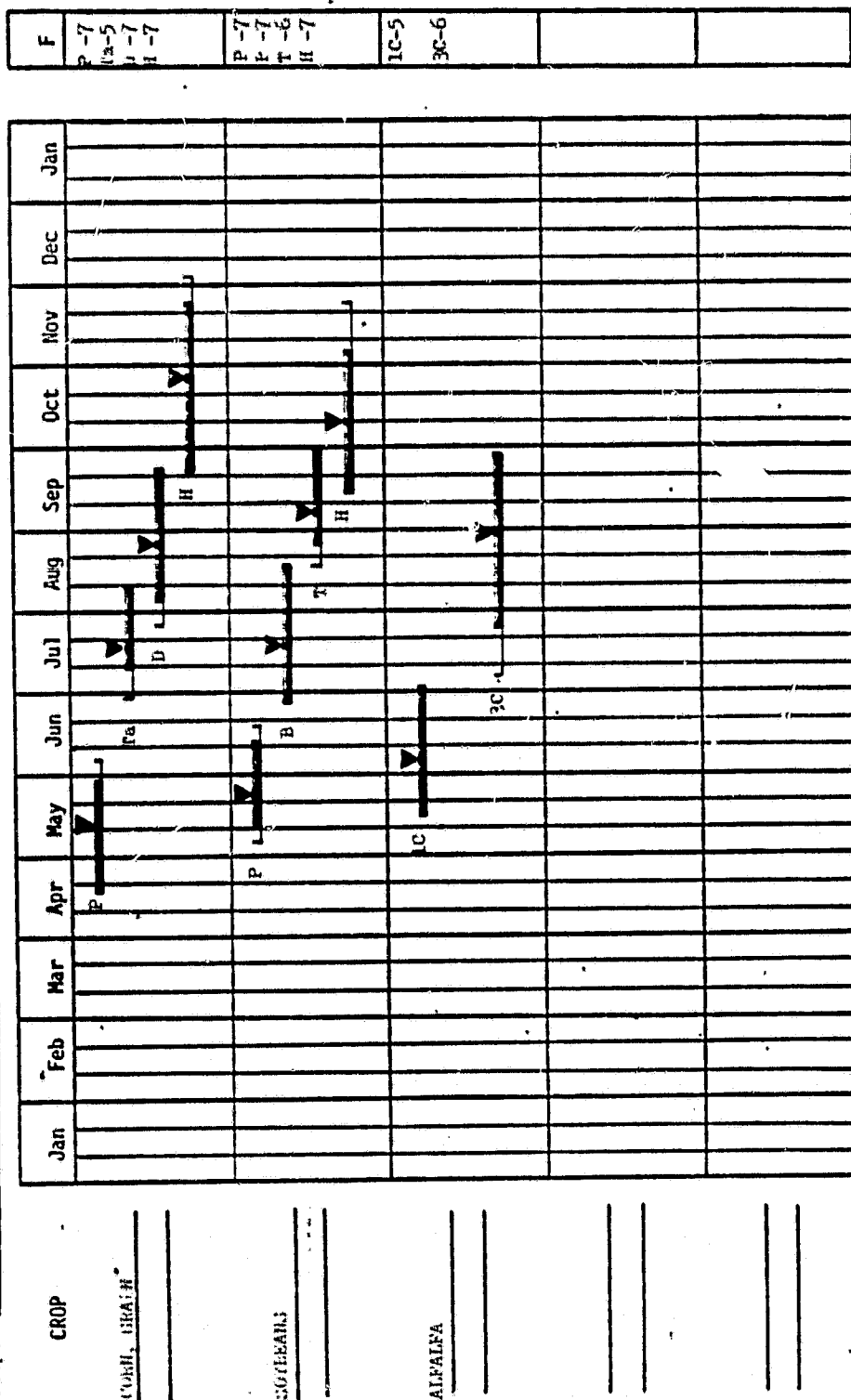
Figure 2.- Crop calendar for Illinois CRD 1.

CROP CALENDAR

(Stage Development Timespan)

Area Limited Drapes

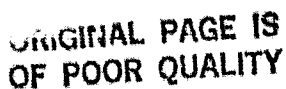
Pol/Sub ILLINOIS - CRJ } - NORMAL



Source: U.S. Department of Agriculture unpublished statistics.

Figure 3.- Crop calendar for Illinois CRD 3.

9

Page 1 of 1 Pages

Source: U.S. Department of Agriculture unpublished statistics.

Figure 5.- Crop calendar for Illinois CRD 5.

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Date 23 December 1981

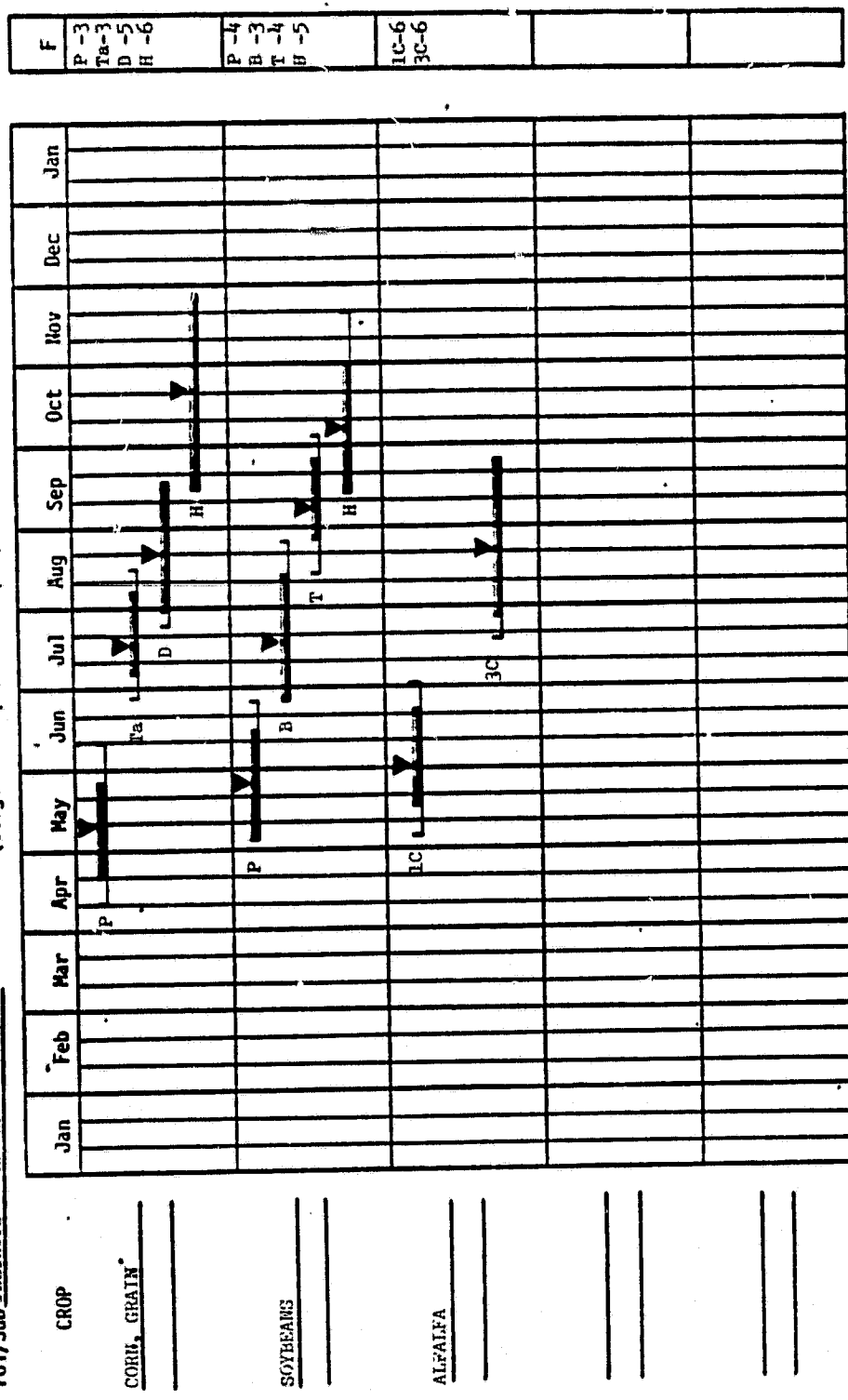
CROP CALENDAR

Page 1 of 1 Pages

(Stage Development Timespan)

Area UNITED STATES

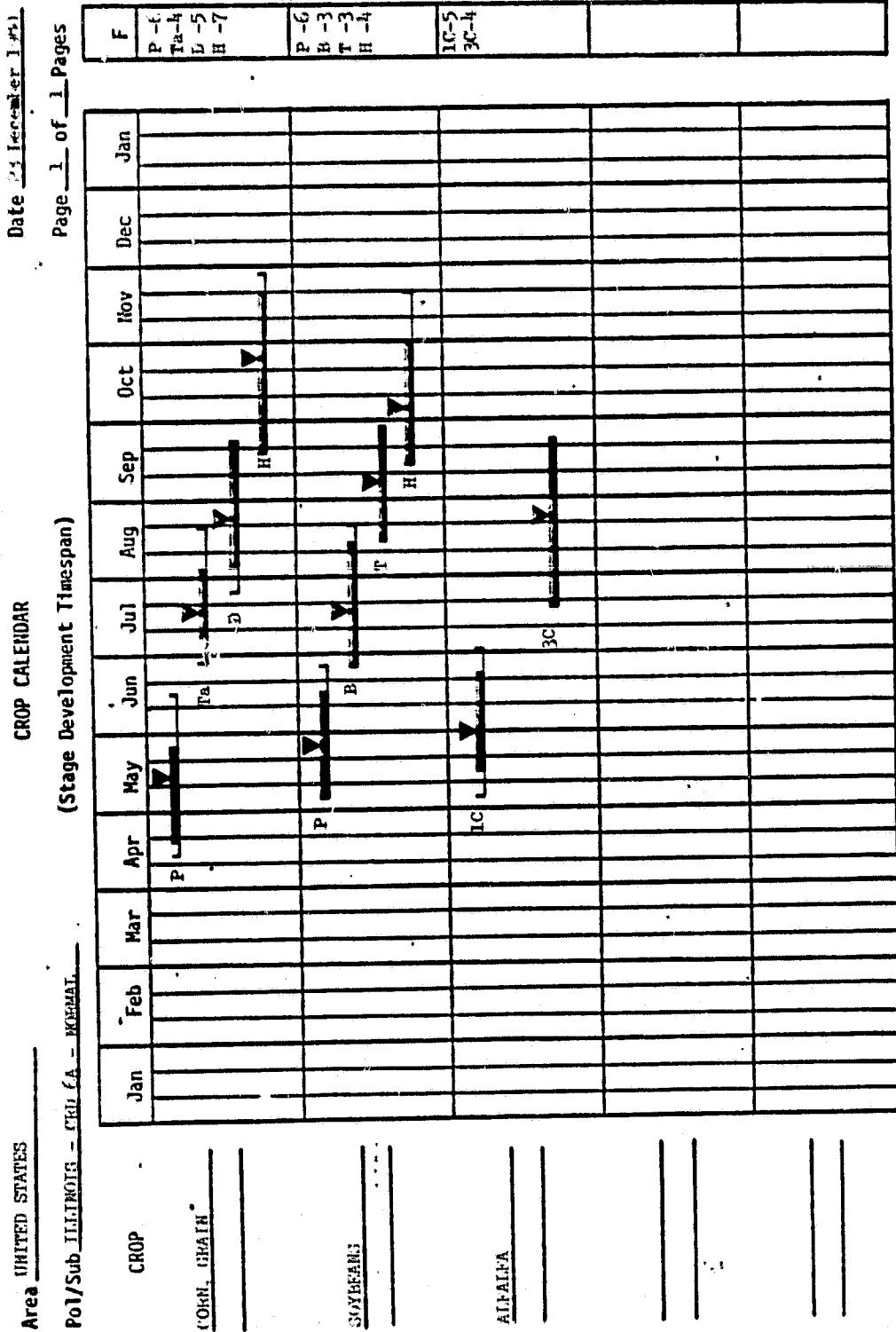
Pol/Sub ILLINOIS - CHU 1A - NORMAL



Source: U.S. Department of Agriculture unpublished statistics.

Figure 7.- Crop calendar for Illinois CRD 4A.

Area UNITED STATES CROP CALENDAR Date October 1, 1951
 (Stage Development Timespan) Page 1 of 1 Pages
 Pol/Sub ILLINOIS - CRO EA - NORMAL



Source: U.S. Department of Agriculture unpublished statistics.

Figure 8.- Crop calendar for Illinois CRD 6A.

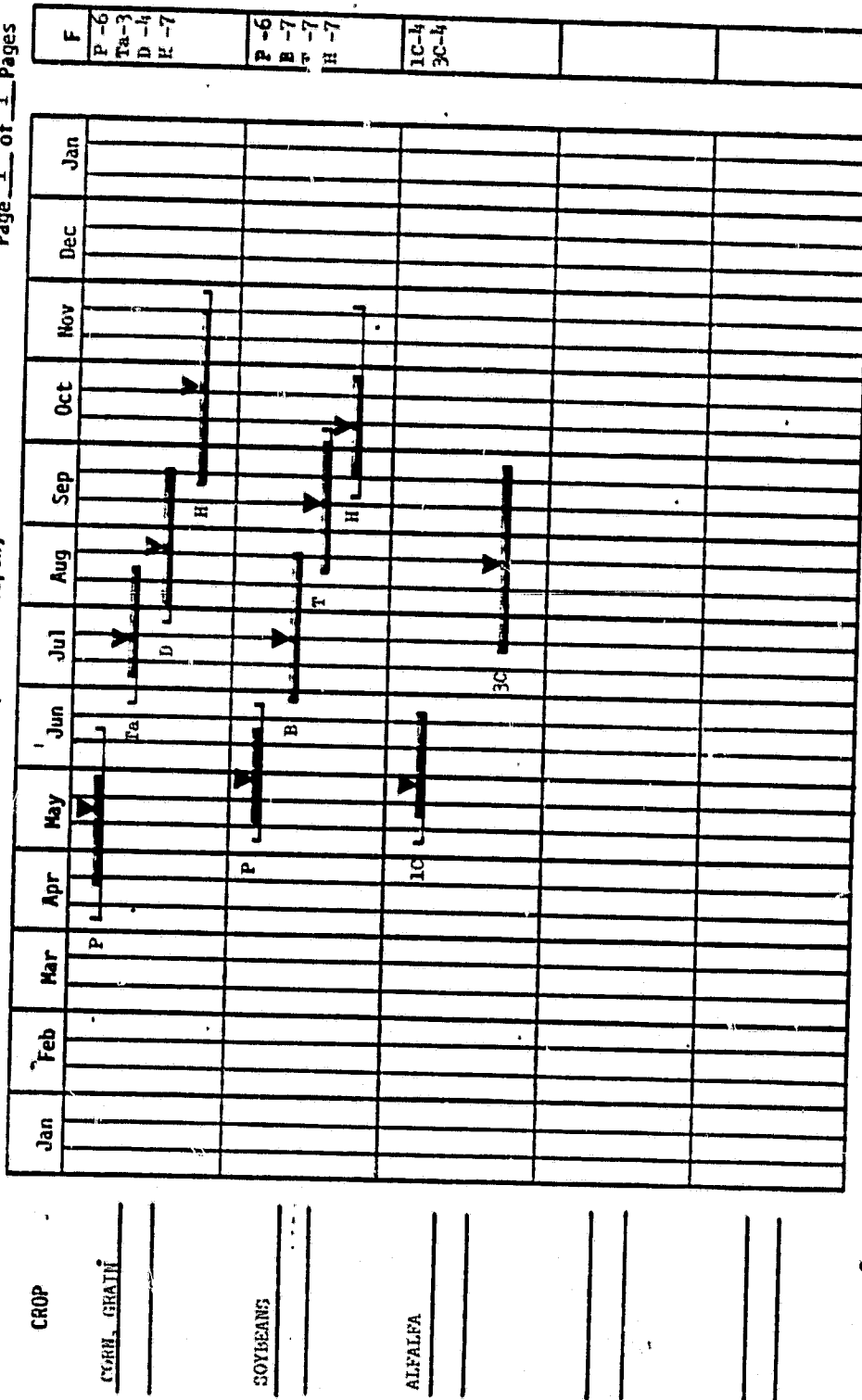
Area UNITED STATES

Pol/Sub ILLINOIS - CRD 9 - NORMAL

CROP CALENDAR

(Stage Development Timespan)

Date 23 December 1944

Page 1 of 1 Pages

Source: U.S. Department of Agriculture unpublished statistics.

Figure 10.- Crop calendar for Illinois CRD 9.

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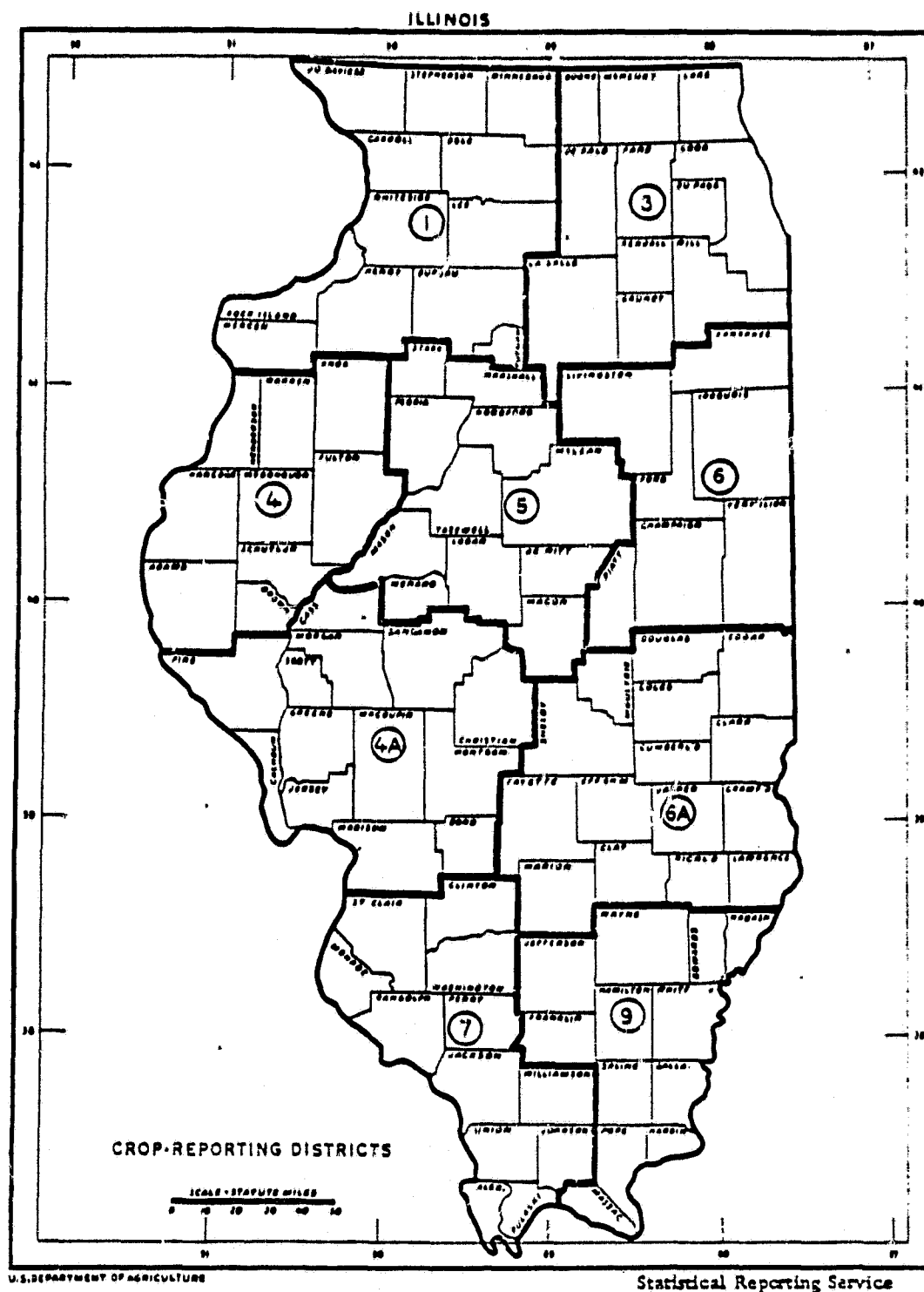


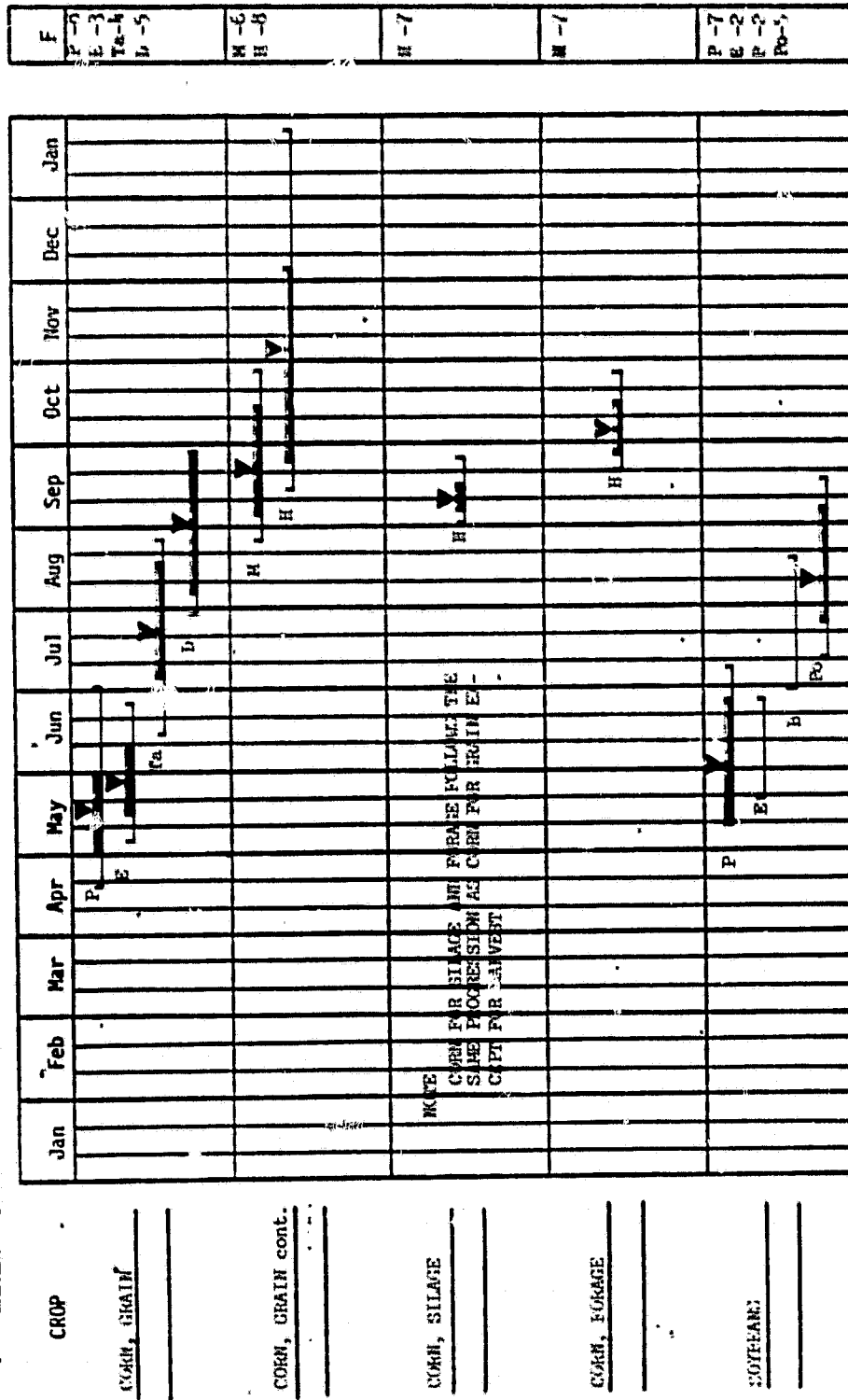
Figure 11.- Map showing the Illinois CRD's.

CROP CALENDAR

Area UNITED STATES

Pol/Sub INDIAN - STATE - NORMAL

(Stage Development Timespan)



Source: Indiana Weekly Weather and Crops Bulletin, U.S. Department of Agriculture unpublished statistics and Handlook #283 "Field and Seed Crops Usual Planting and Harvesting Dates".

Figure 12.- Crop calendar for the state of Indiana.

Date 7 January 1961

Page 3 of 4 Pages

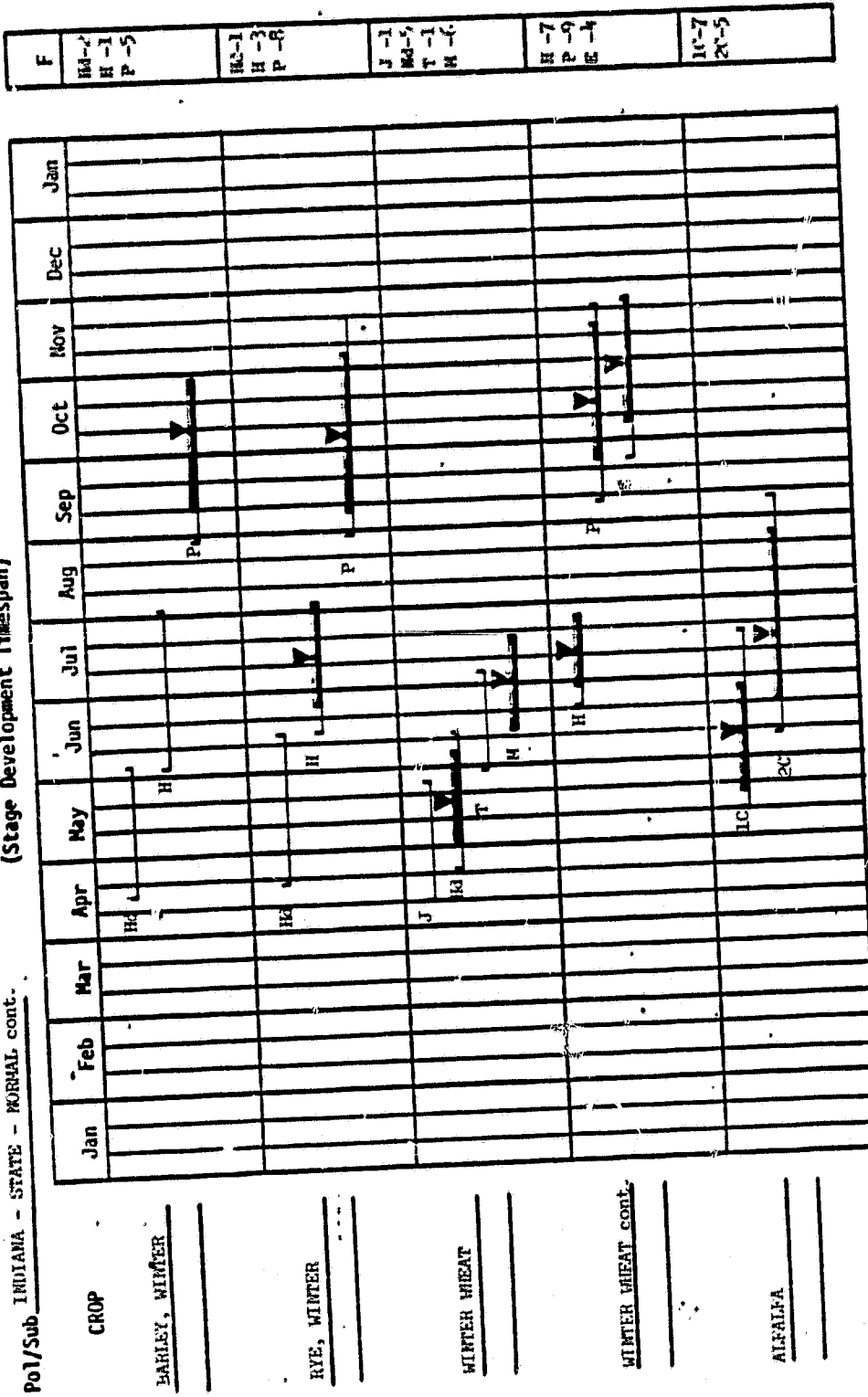
CROP CALENDAR

(Stage Development Timespan)

Area UNITED STATES

INDIANA - STATE - MORHALL cont.

Pol/Sub



Source:

Figure 12.- Continued.

Date 7 January 1981
Page 4 of 4 Pages

Area UNITED STATES

Pol/Sub INDIANA - STATE - NORMAL cont.

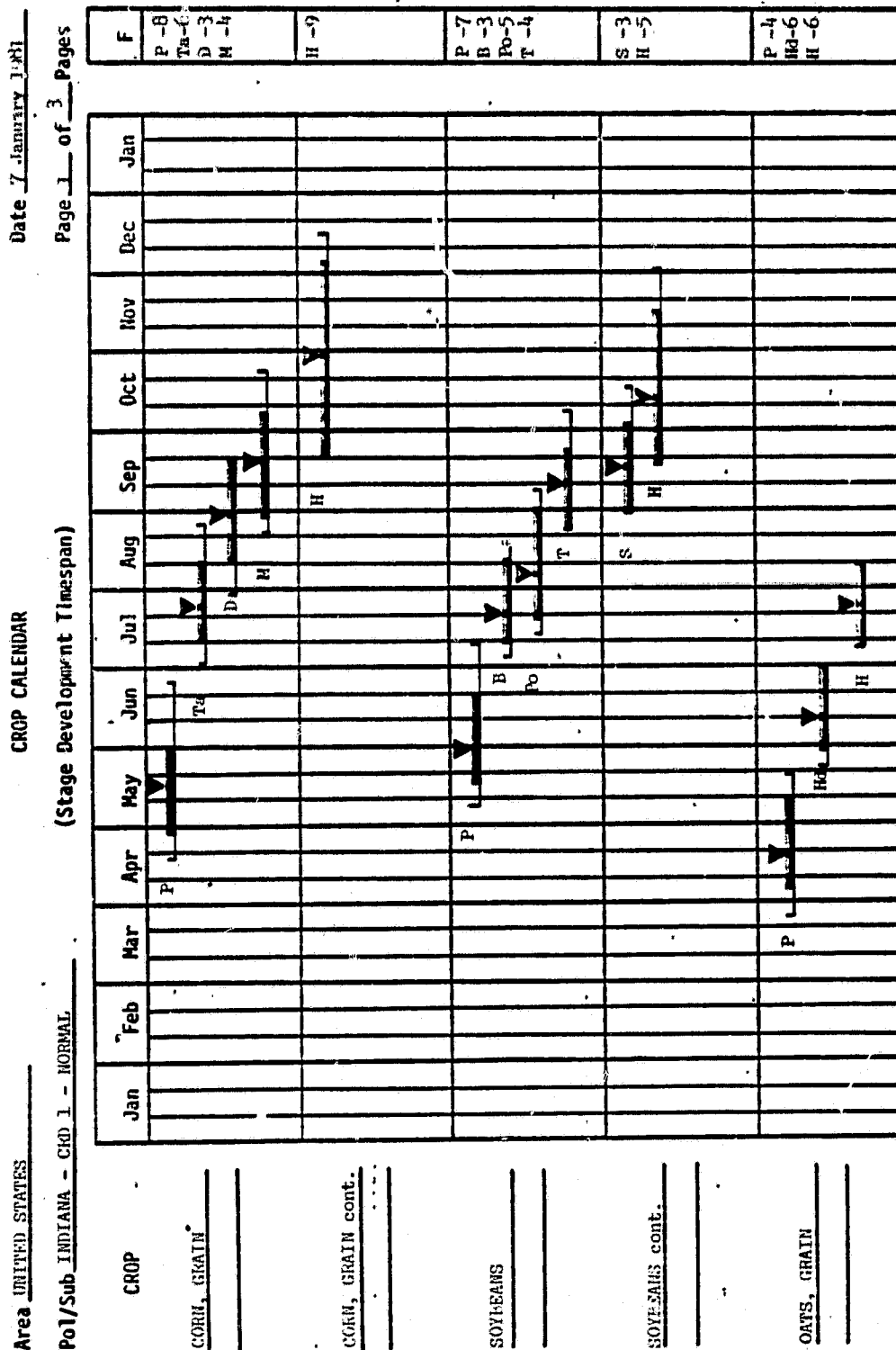
(Stage-Development Timespan)

Page 4 of 4 Pages

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Source: Indiana Weekly Weather and Crops Bulletin, U.S. Department of Agriculture unpublished statistics and Handbook # 283 "Field and Seed Crops Usual Planting and Harvesting Dates".

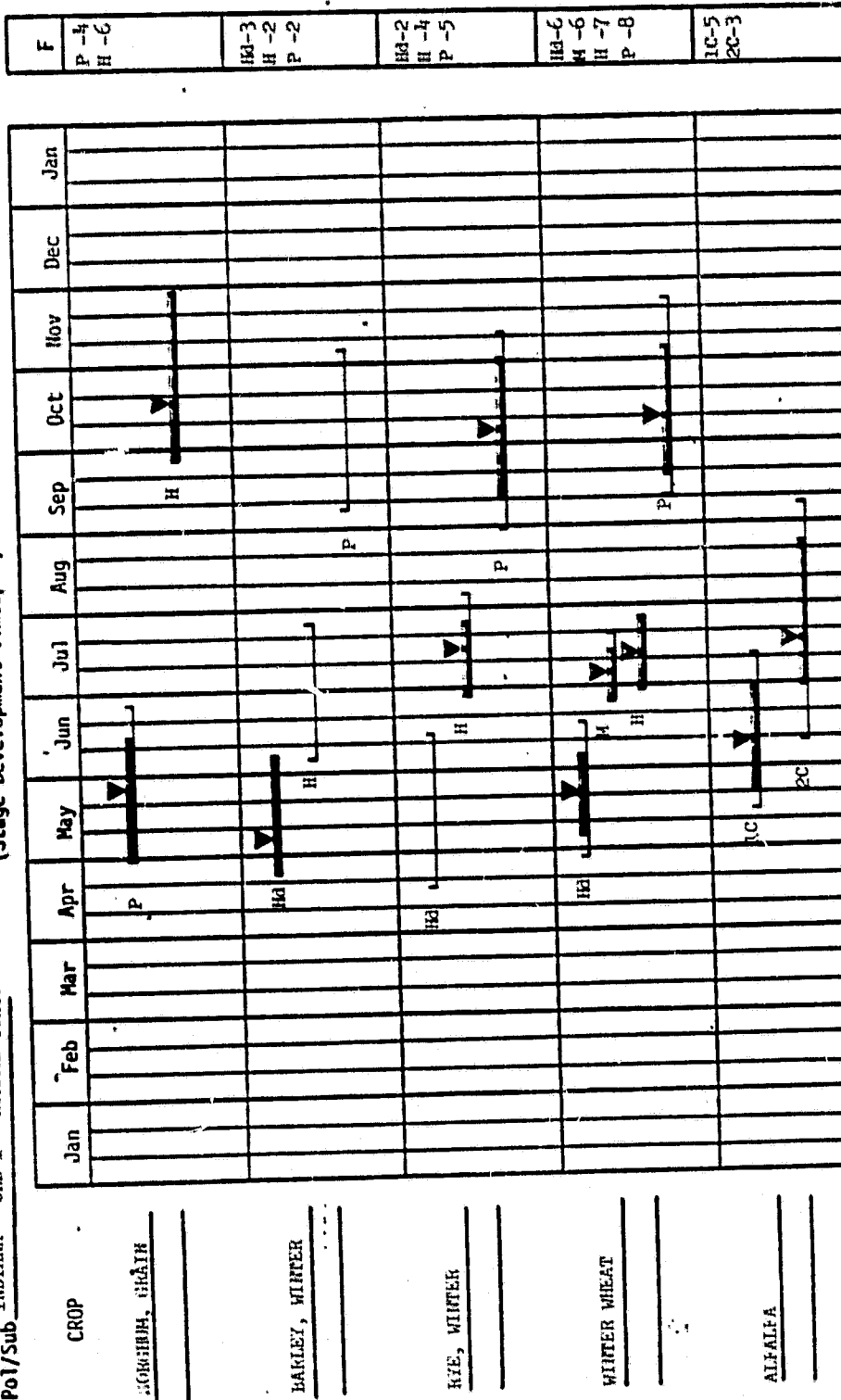
Figure 13.- Crop calendar for Indiana CRO 1.

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Area UNITED STATES Date 7 January 1961
 Pol/Sub INDIANA - CHU 1 - NORMAL cont. Page 2 of 3 Pages

CROP CALENDAR

(Stage Development Timespan)



Source:

Figure 13.- Continued.

Date 7 January 1961
Page 3 of 3 Pages

CROP CALENDAR

(Stage Development Timespan)

Area UNITED STATES

PO1/Sub YULIYANA - CRD 1 - NORMAL cont.

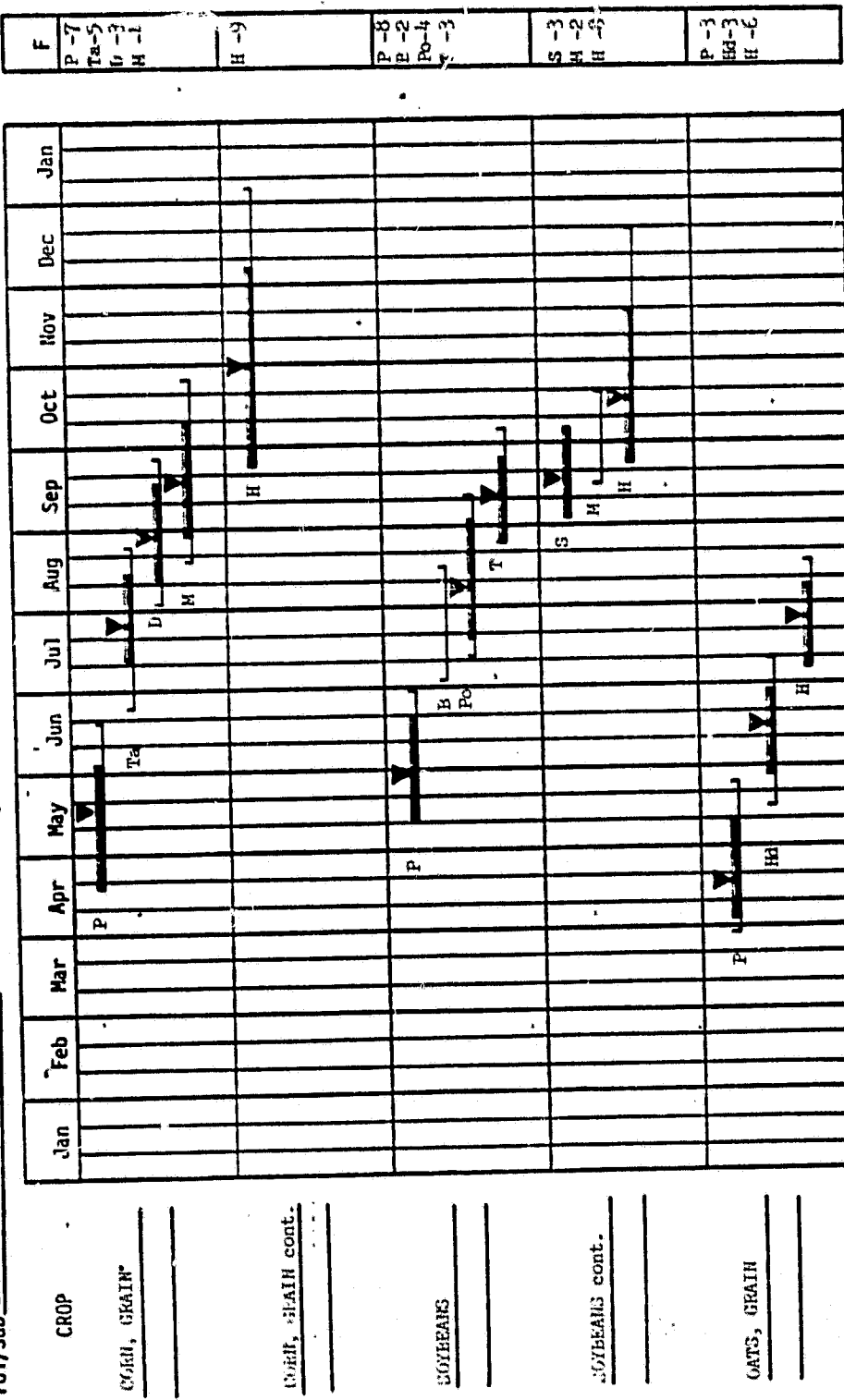
CROP

(FIVE) MAY - CLOVER

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Figure 13.- Concluded.



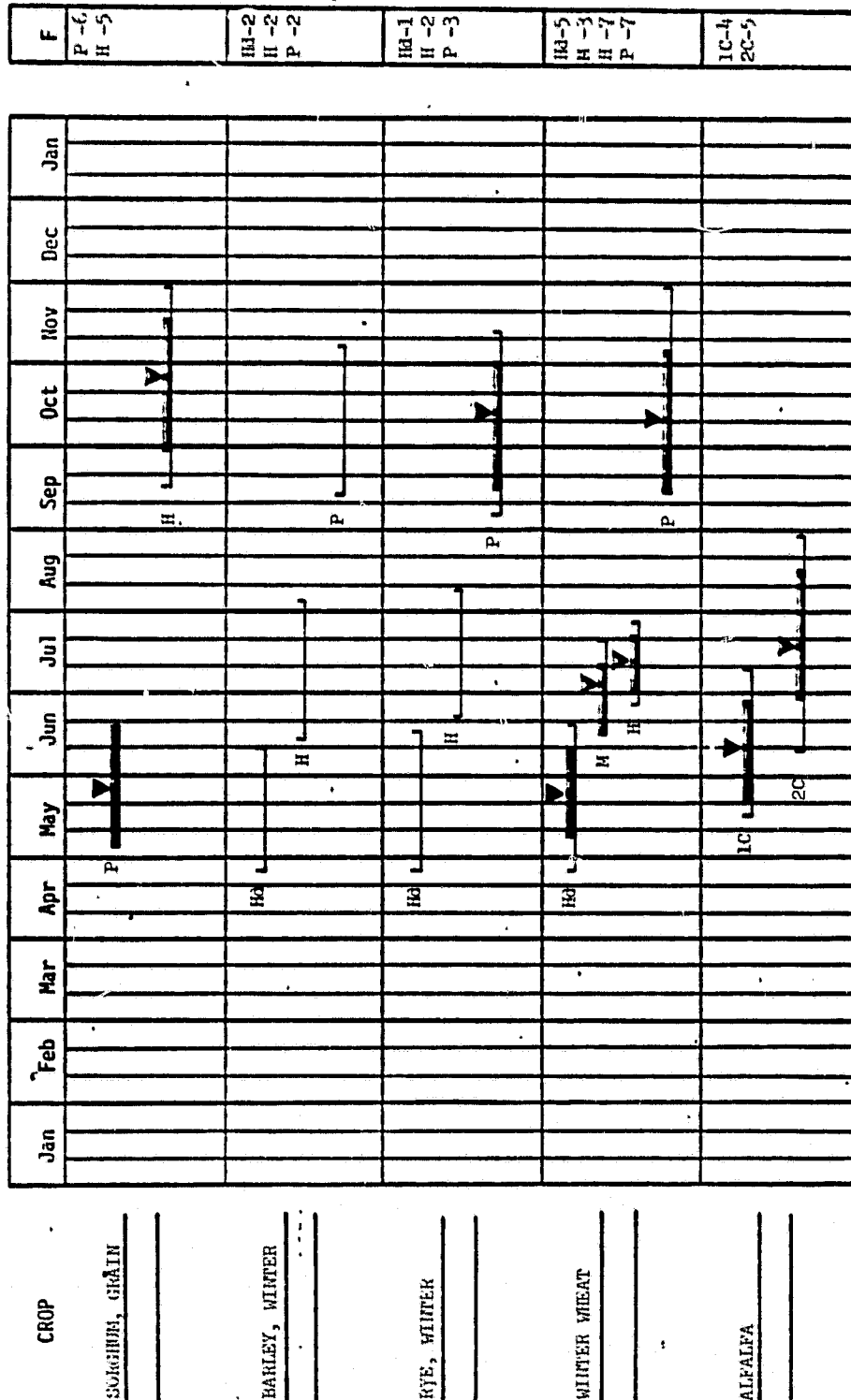
Source: Indiana Weekly Weather and Crops Bulletin, U.S. Department of Agriculture unpublished statistics and Handbook # 283 "Field and Seed Crops Usual Planting and Harvesting Dates".

Figure 14.- Crop calendar for Indiana CRD 2.

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Area UNITED STATES
Date 7 January 1961
Page 2 of 3 Pages

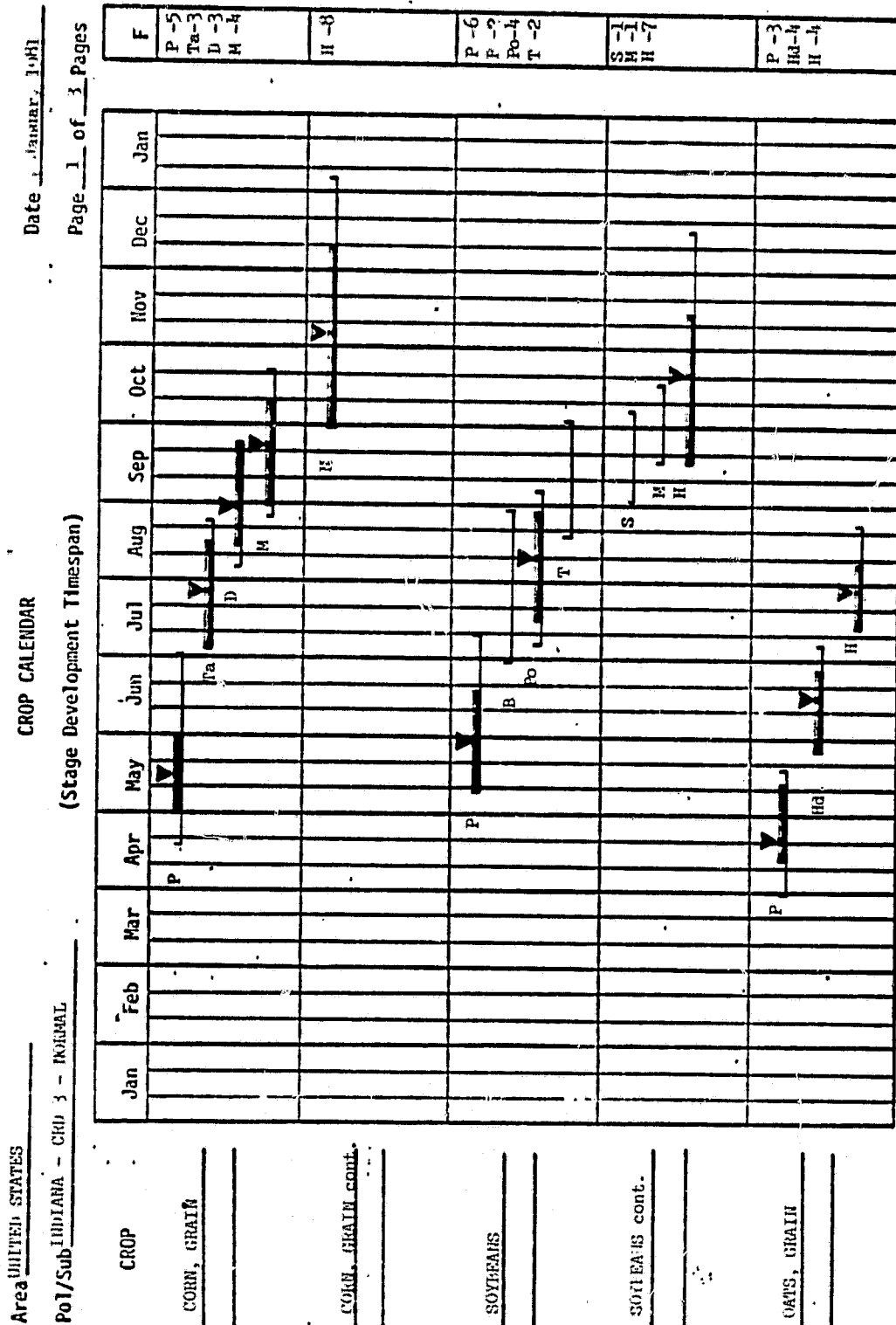
CROP CALENDAR
(Stage Development Timespan)



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Figure 14.- Continued.

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Source: Indiana Weekly Weather and Crops Bulletin, U.S. Department of Agriculture unpublished statistics and Handbook # 283 "Field and Seed Crops Usual Planting and Harvesting Dates".

Figure 15.- Crop calendar for Indiana CRD 3.

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Date 7 January 1961

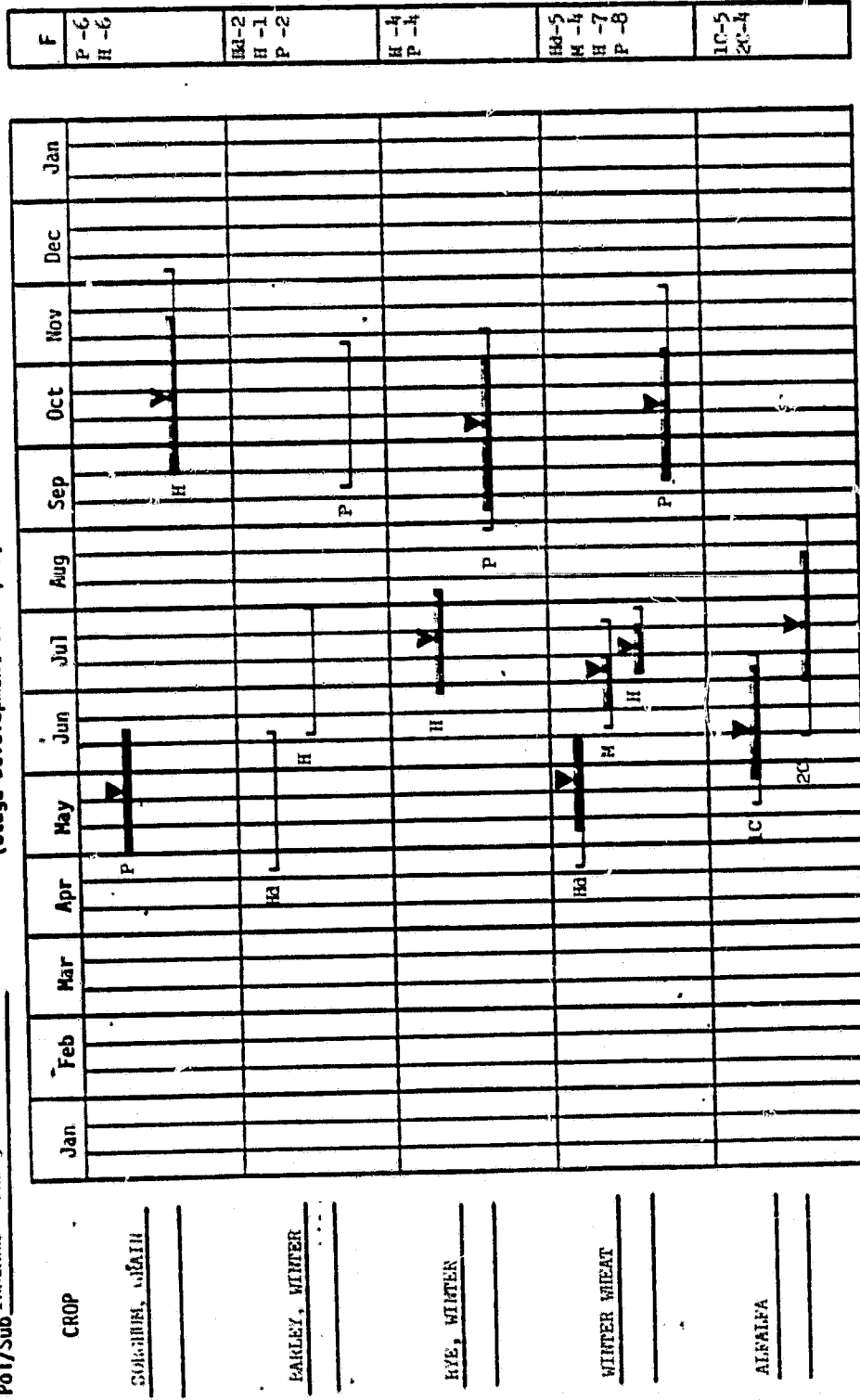
Page 2 of 3 Pages

CROP CALENDAR

(Stage Development Timespan)

Area UNITED STATES

Pol/Sub INDIANA - CRO 3 - NORMAL cont.



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Figure 15.- Continued.

Date 7 January 1981
Page 3 of 4 Pages

CROP CALENDAR

Area UNITED STATES

(Stage Development Timespan)

PO1/Submittiana - CRJ 3 - 1A, RRAI, cont.

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Date 7 January 1951

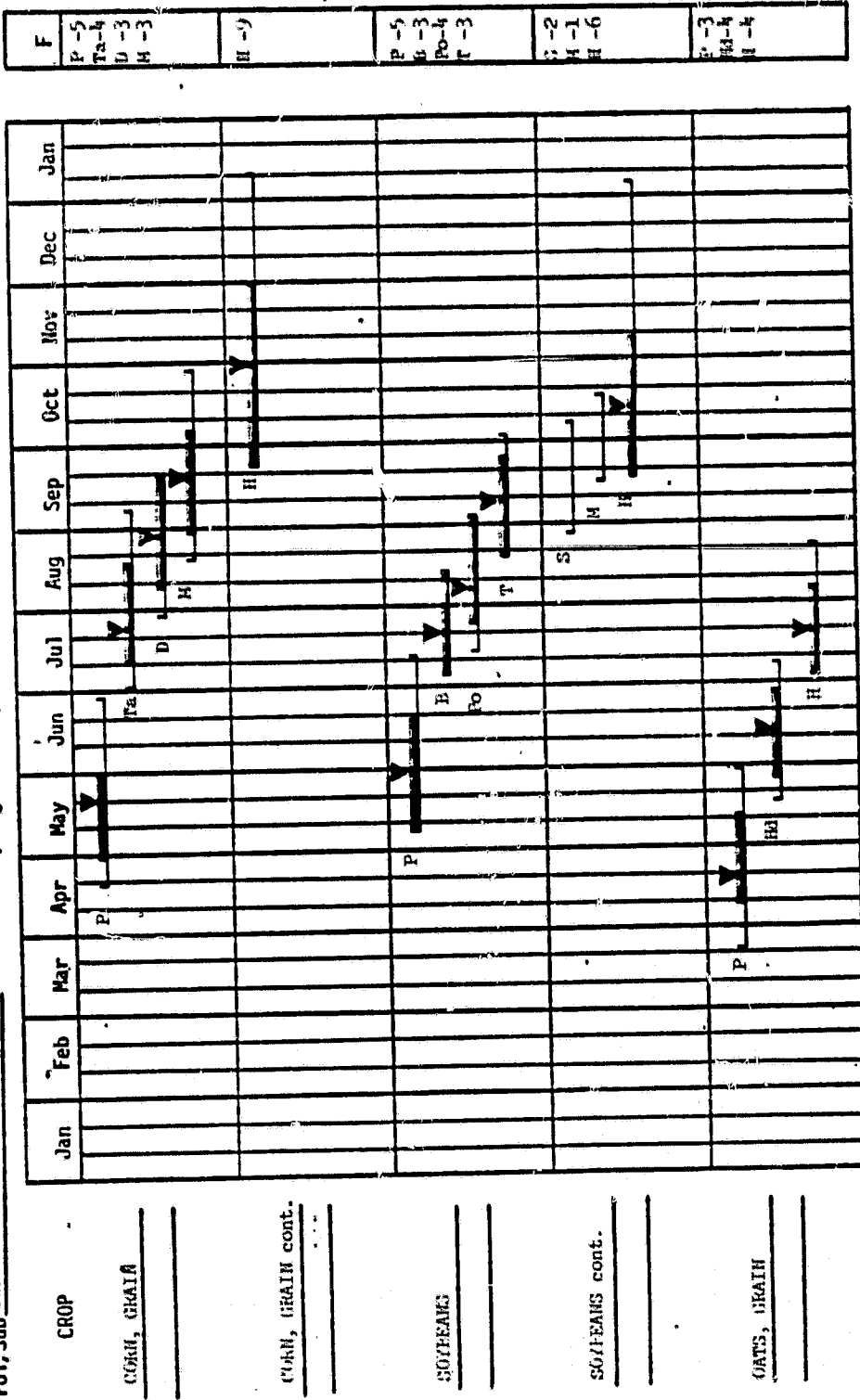
CROP CALENDAR

Page 1 of 3 Pages

(Stage Development Timespan)

Area UNITED STATES

Pol/Sub INDIANA - CRD 4 - NORMAL



Source: Indiana Weekly Weather and Crops Bulletin, U.S. Department of Agriculture unpublished statistics and Handbook # 283 "Field and Seed Crops Usual Planting and Harvesting Dates".

Figure 16.- Crop calendar for Indiana CRD 4.

Date 7 January 1961

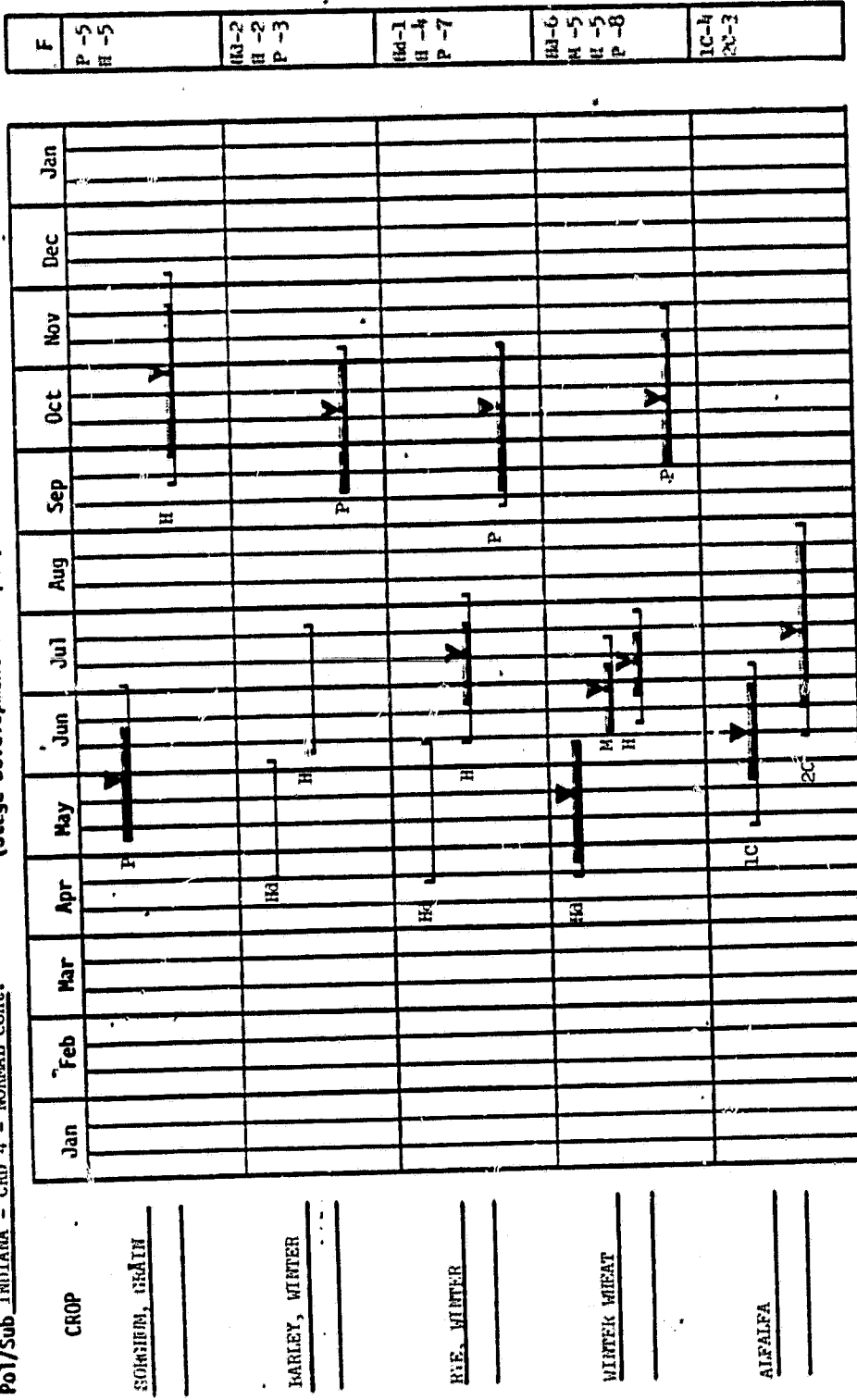
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CROP CALENDAR

(Stage Development Timespan)

Area UNITED STATES

Pol/Sub INDIANA - CRD 4 - NORMAL cont.



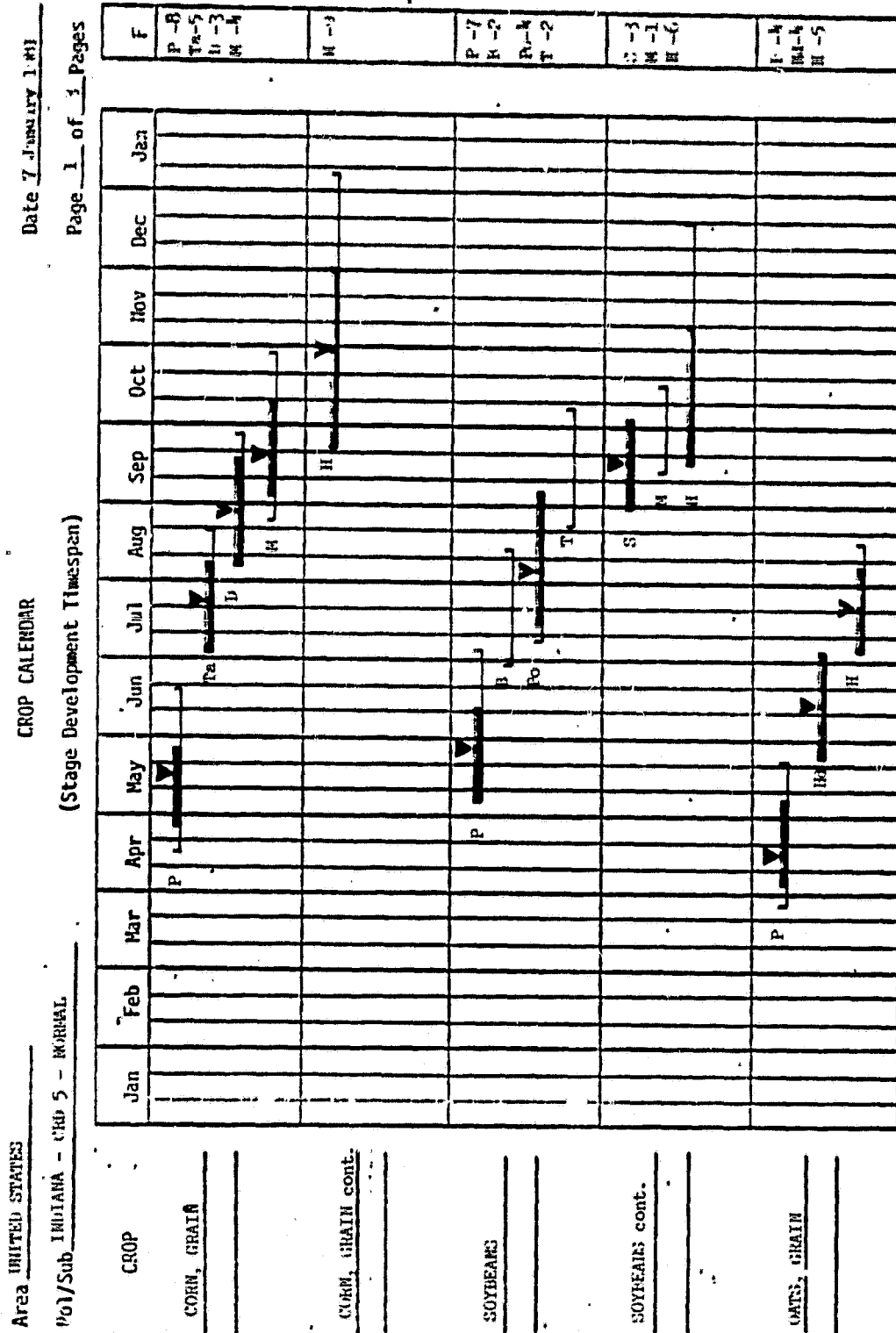
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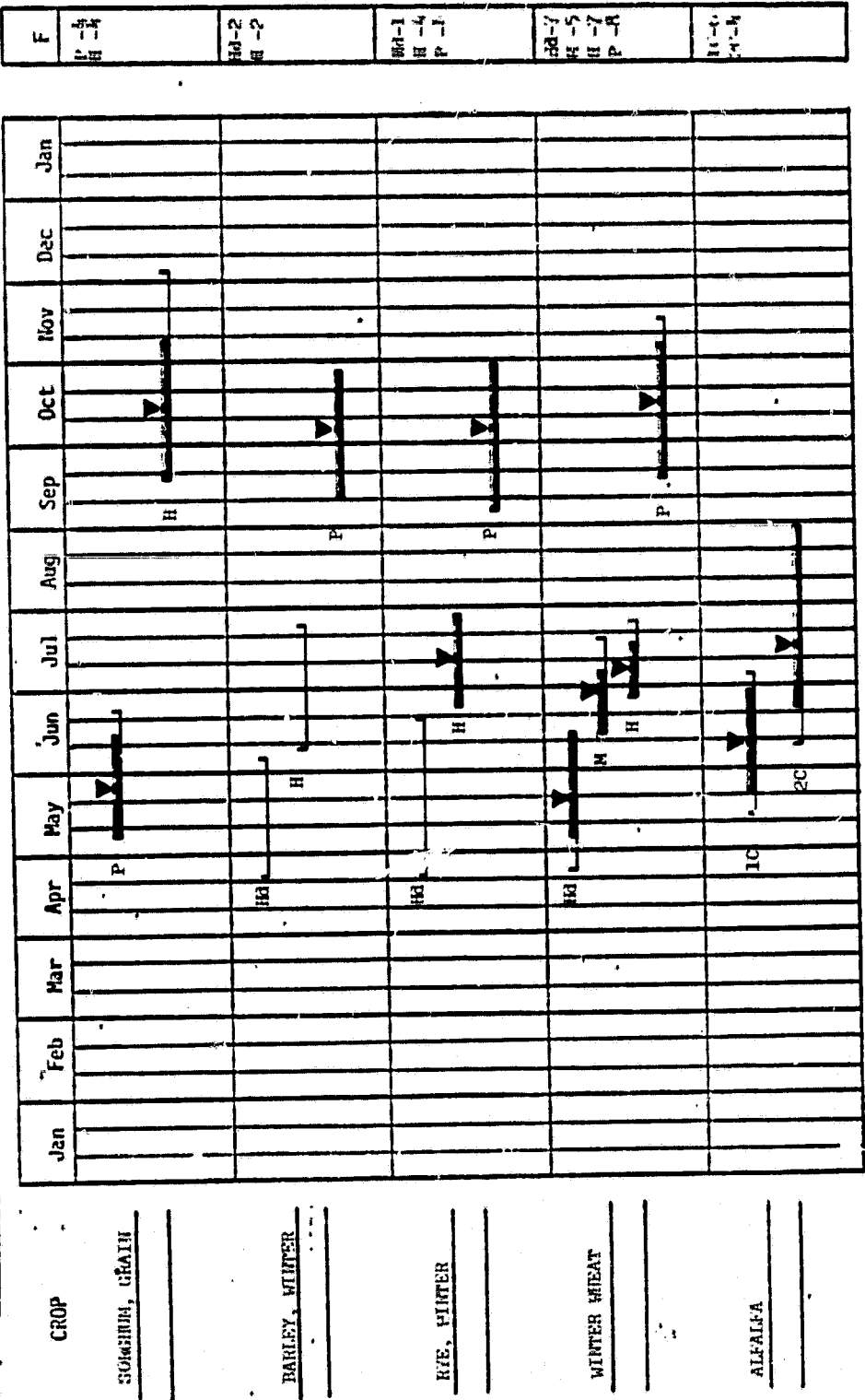
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Figure 16.- Concluded.



Source: Indiana Weekly Weather and Crops Bulletin, U.S. Department of Agriculture unpublished statistics and Handbook # 283 "Field and Seed Crops Usual Planting and Harvesting Dates".

Figure 17.- Crop calendar for Indiana CRD 5.



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Figure 17.- Continued.

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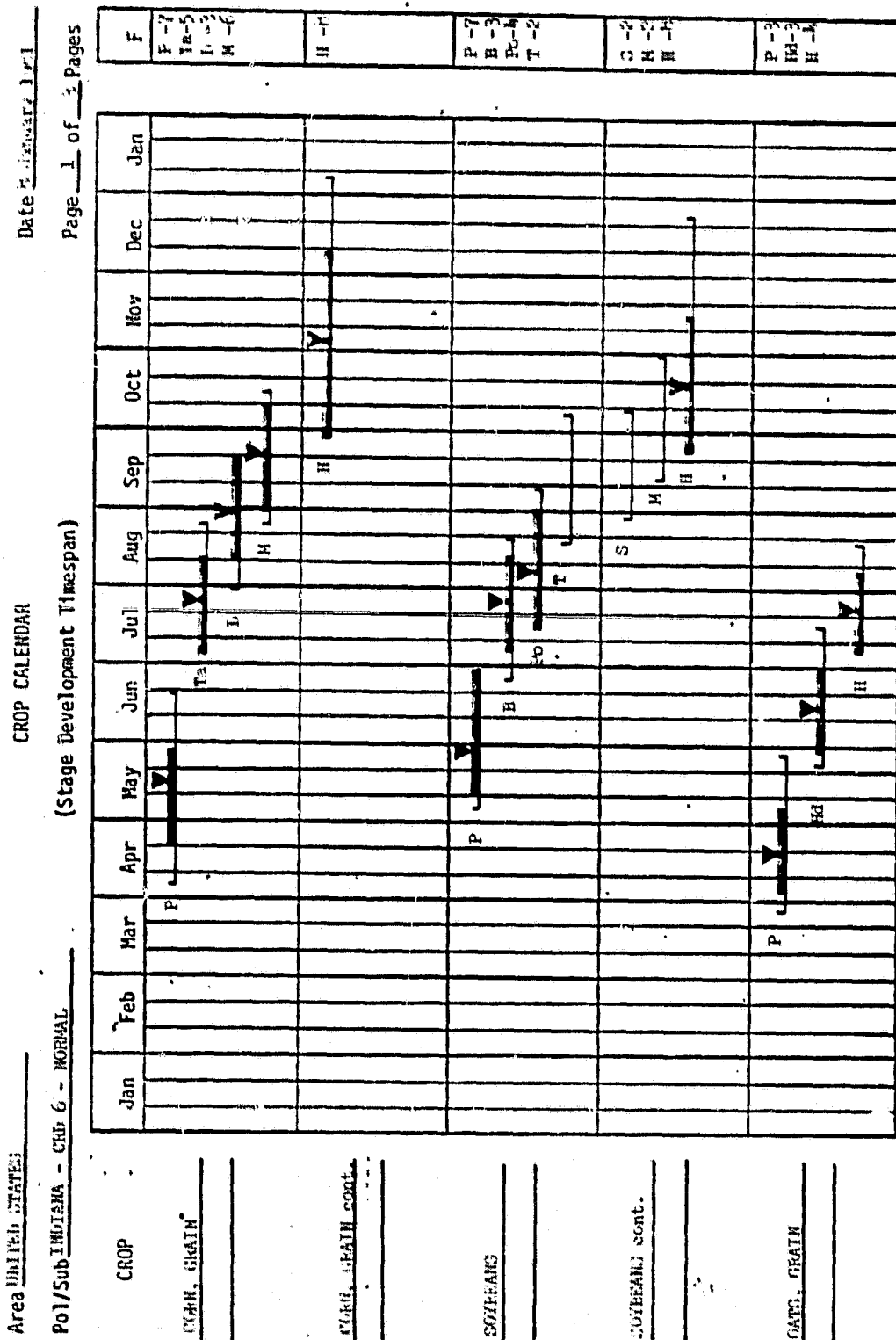
(Stage Development Timespan)

Pol/Sub INDIANA - CRU 5 - NORMAL cont.

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Figure 17.- Concluded.



Source: Indiana Weekly Weather and Crops Bulletin, U.S. Department of Agriculture unpublished statistics and Hardlook # 283 "Field and Seed Crops Usual Planting and Harvesting Dates".

Figure 18.- Crop calendar for Indiana CRD 6.

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Date January 1971

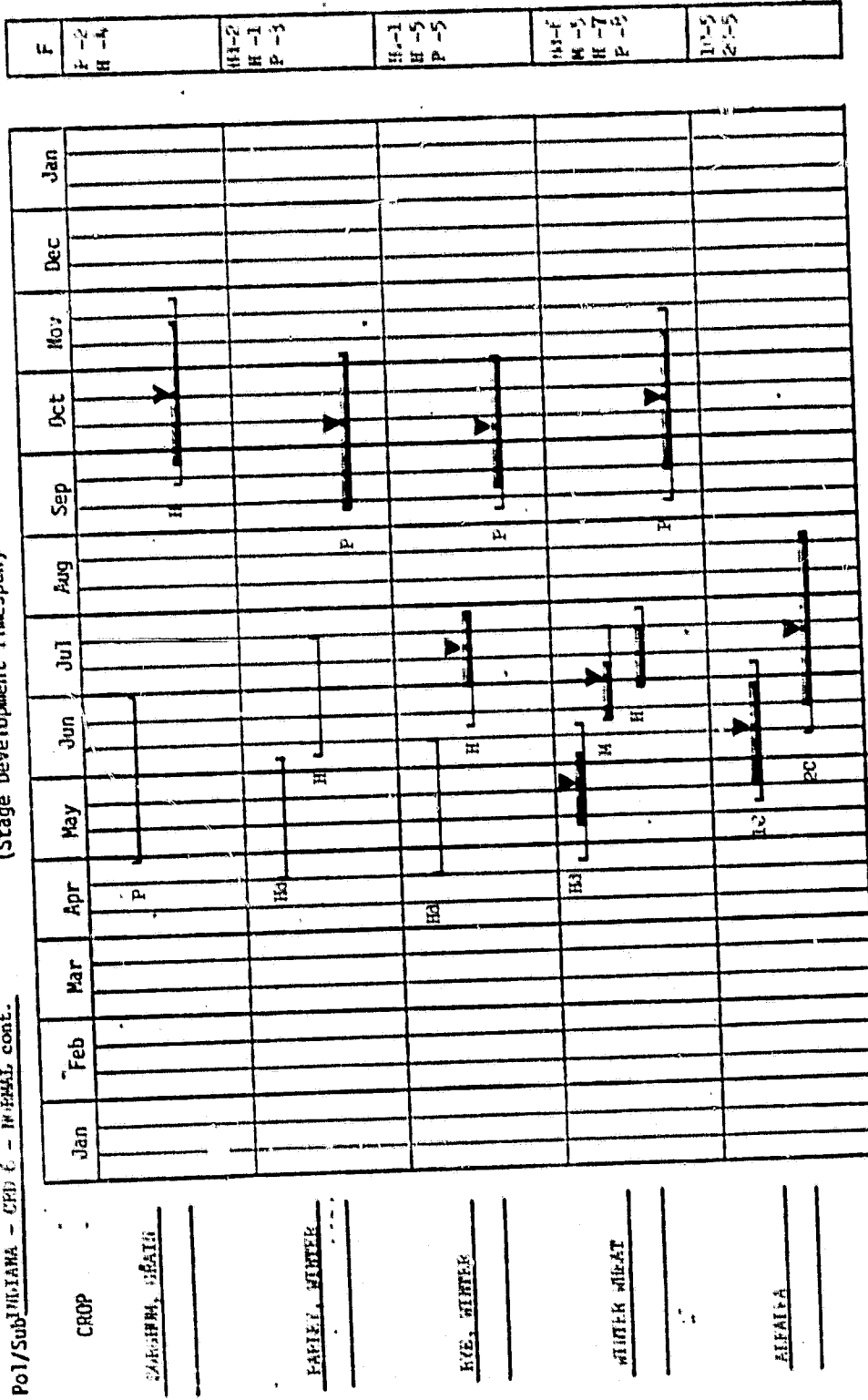
Page 2 of 3 Pages

CROP CALENDAR

(Stage Development Timespan)

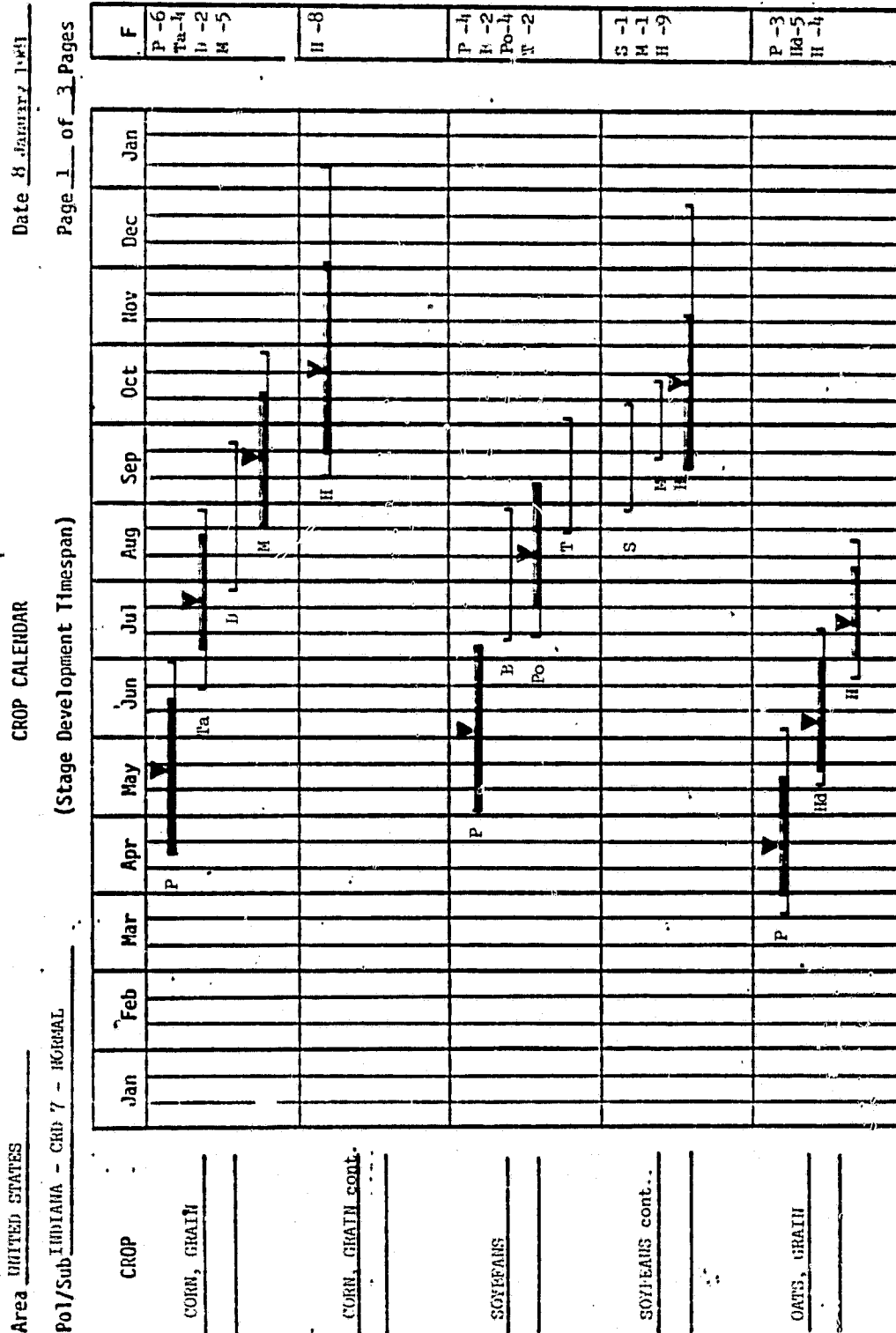
Area UNITED STATES

Pol/Sub INDIANA - CROD 6 - NORMAL cont.



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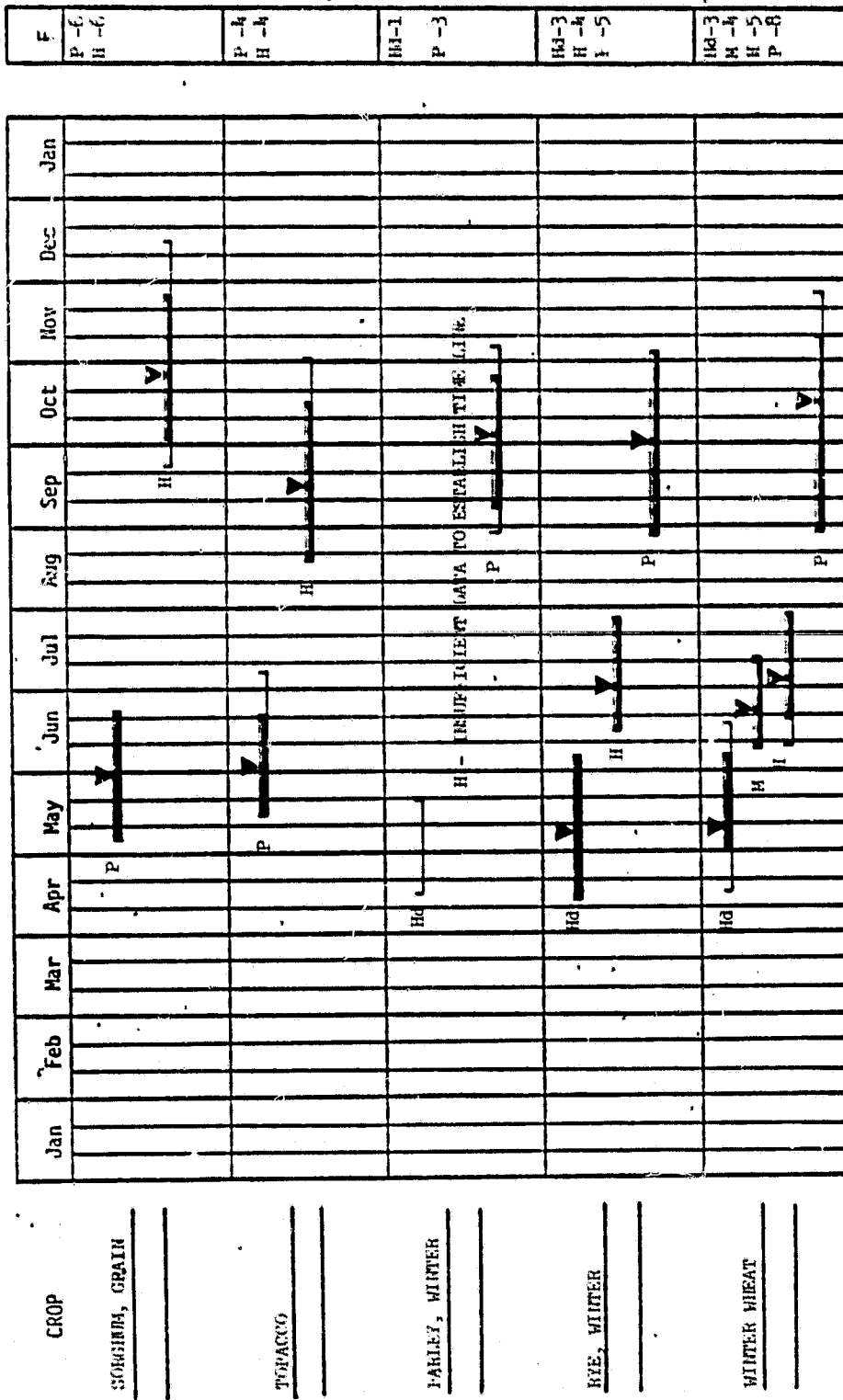
Figure 18.- Continued.



Source: Indiana Weekly Weather and Crops Bulletin, U.S. Department of Agriculture unpublished statistics and Handbook # 283 "Field and Seed Crops Usual Planting and Harvesting Dates".

Figure 19.- Crop calendar for Indiana CRD 7.

Area UNITED STATES Date 11 January 1961 CROP CALENDAR
POL/SUBINDIANA - CHD 7 - NORMAL cont. Page 2 of 3 Pages
 (Stage Development Timespan)



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Figure 19.- Continued.

Date January 1961
Page 1 of 2 Pages

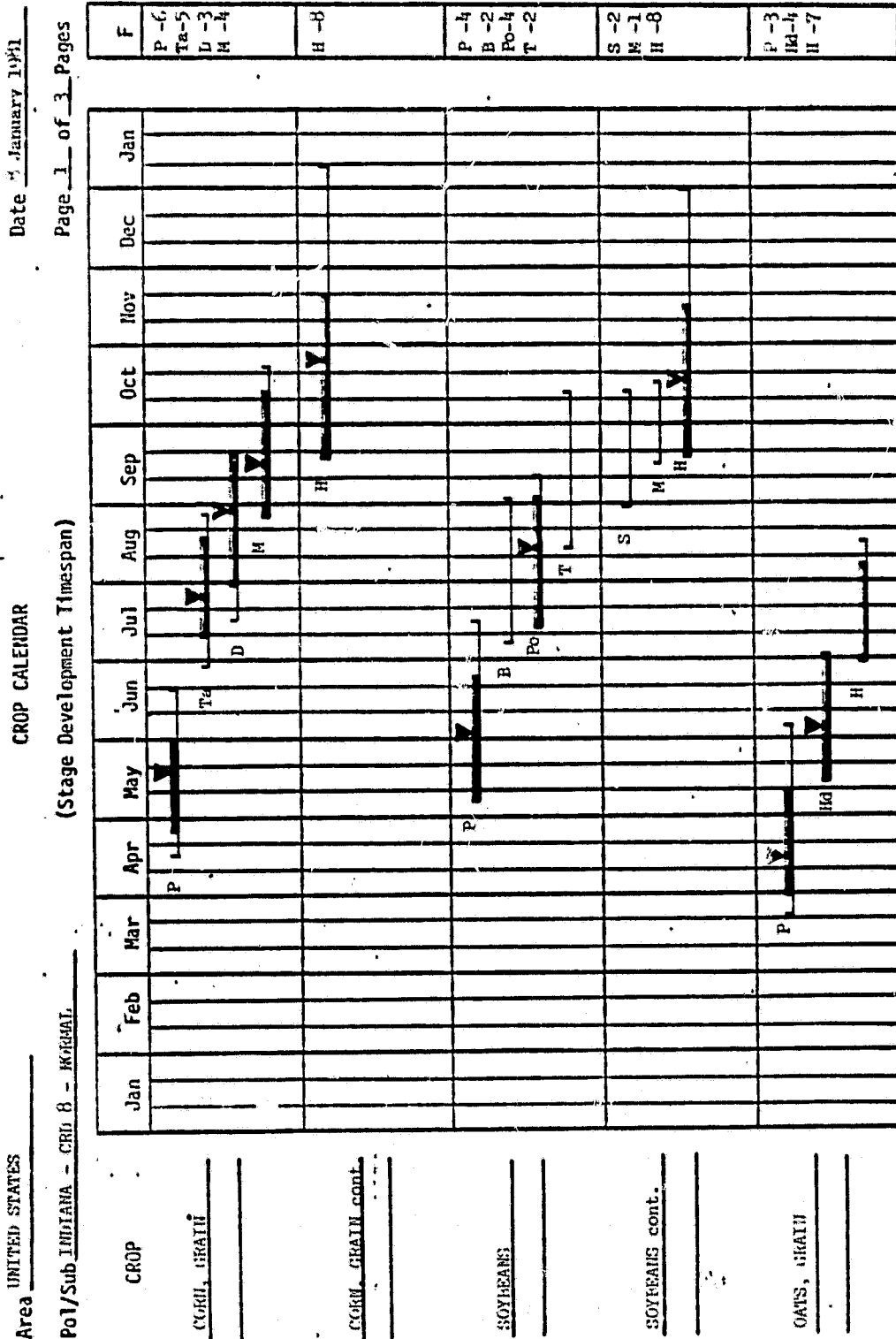
(Stage Development Timespan)

Area UNITED STATES
POL/SUBILIANA - CRU 7 - INRMAL cont.

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Source:

Figure 19.- Concluded.



Source: Indiana Weekly Weather and Crops Bulletin, U.S. Department of Agriculture unpublished statistics and Handbook # 283 "Field and Seed Crops Usual Planting and Harvesting Dates".

Figure 20.- Crop calendar for Indiana CRD 8.

Area UNITED STATES

CROP CALENDAR

Date 8 January 1941

Pol/Sub INDIANA - CRD 8 - NORMAL, cont.

(Stage Development Timespan)

Page 2 of 3 Pages

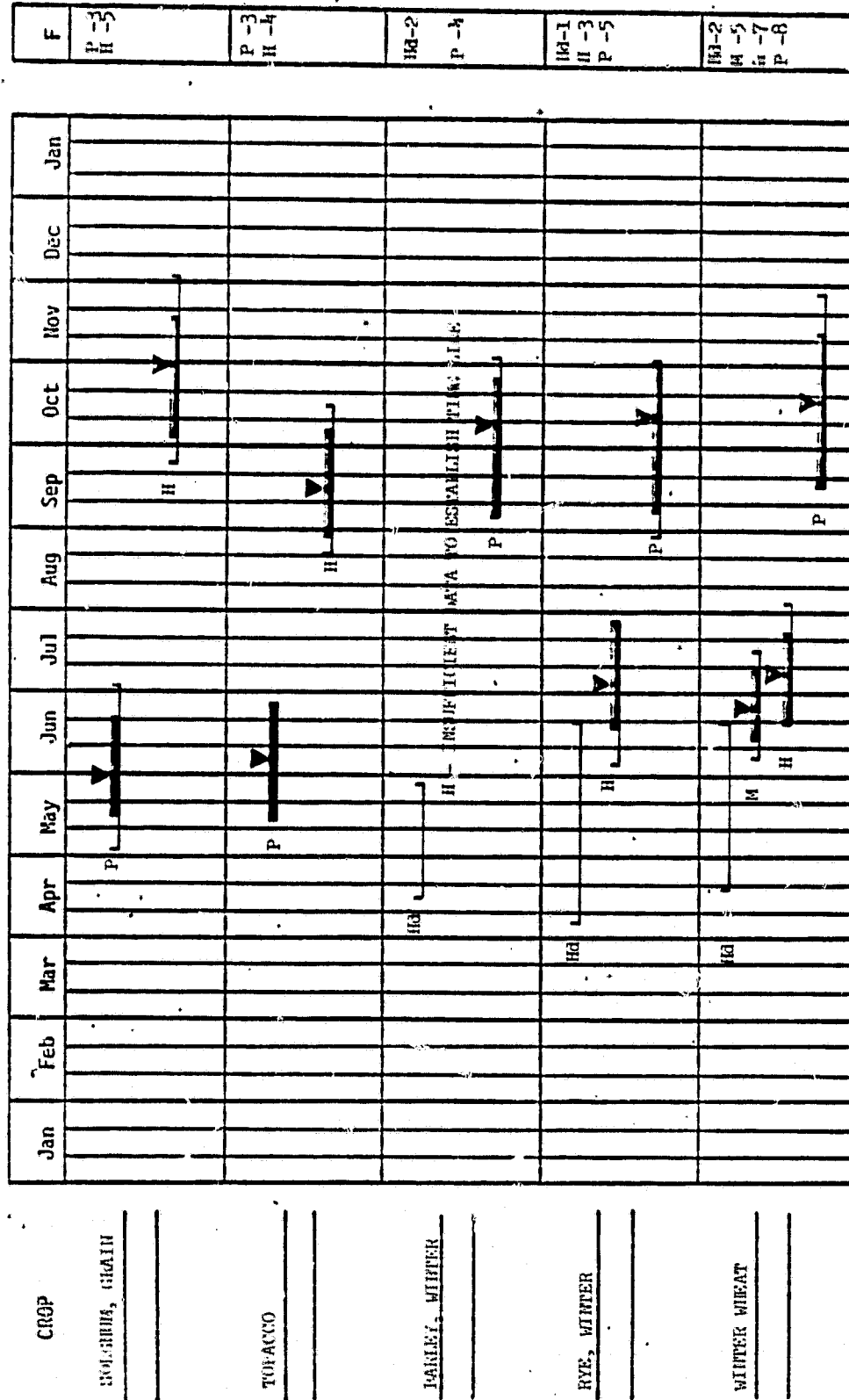


Figure 20.- Continued.

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CROP CALENDAR

Pol/Sub INDIANA - CRD 3 - NORMAL cont.

(Stage Development Timespan)

Date 8 January 1957Page 3 of 3 Pages

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Figure 20.- Concluded.

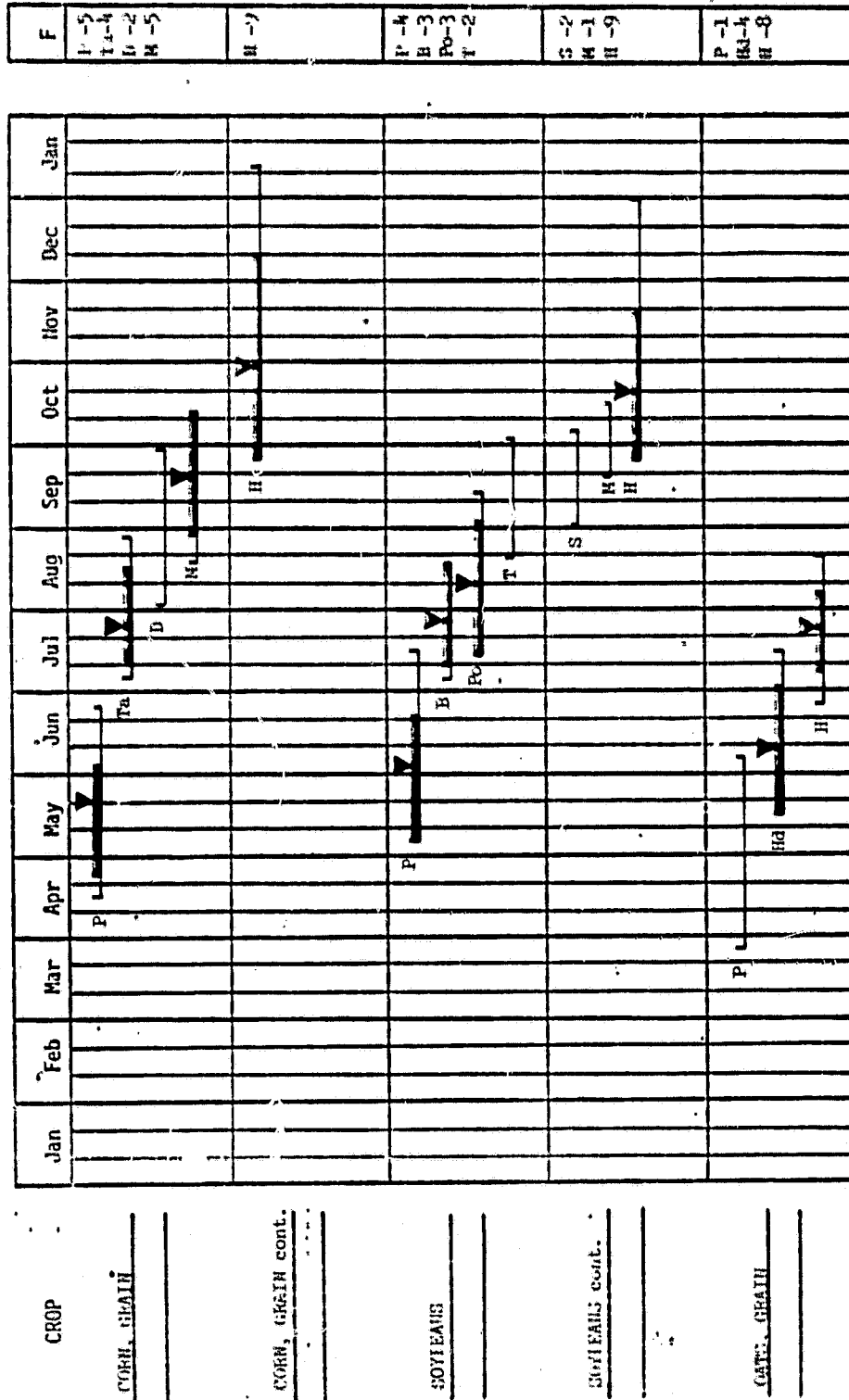
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Area UNITED STATES Date January 1961

CROP CALENDAR

Pol/Sub INDIANA - CRD 9 - NORMAL Page 1 of 3 Pages

(Stage Development Timespan)



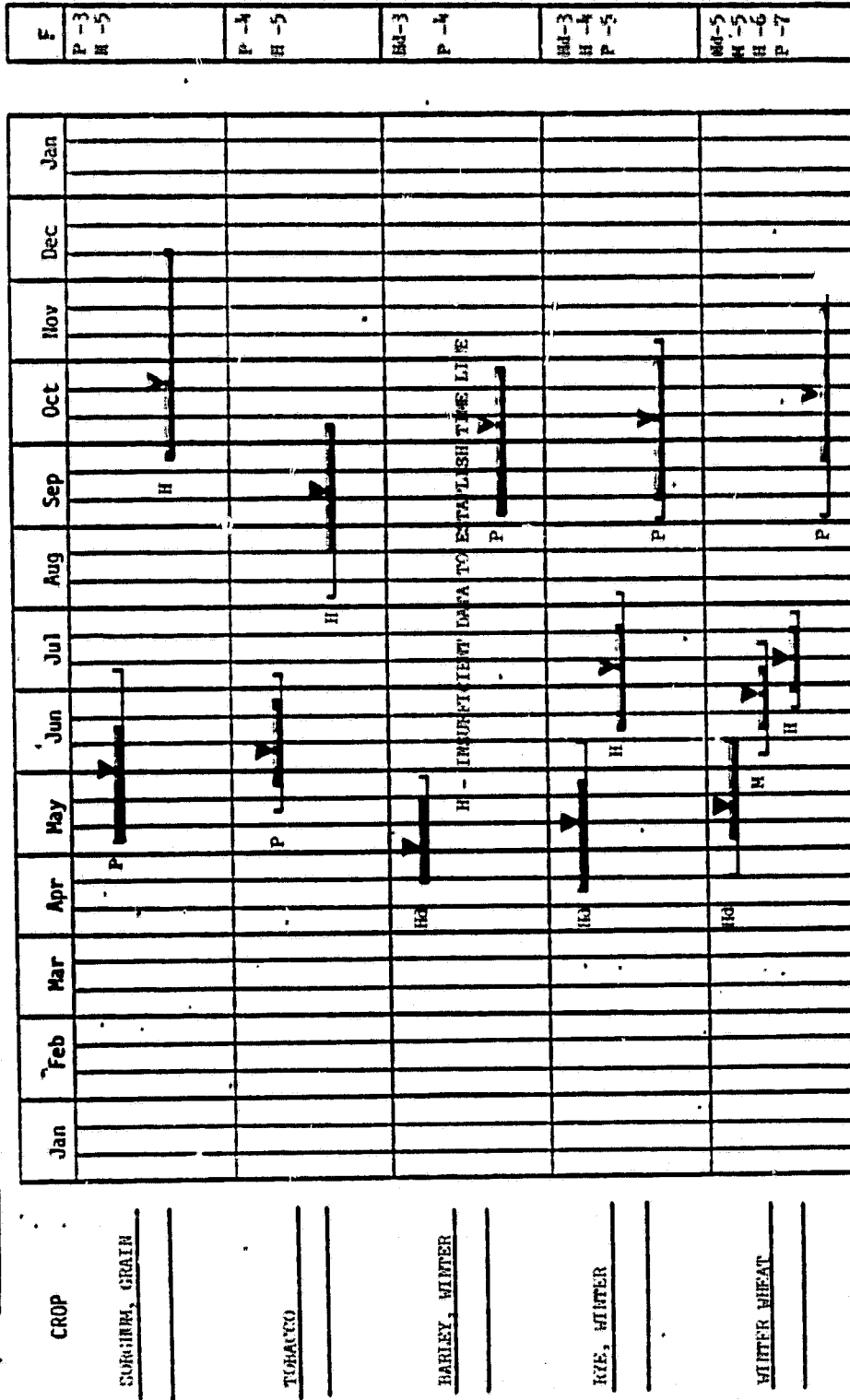
Source: Indiana Weekly Weather and Crops Bulletin, U.S. Department of Agriculture unpublished statistics and Handbook # 283 "Field and Seed Crops Usual Planting and Harvesting Dates".

Figure 21.- Crop calendar for Indiana CRD 9.

Area UNITED STATES Date 1 January 1961
Po1/Sub INDIANA - CRD 9 - NORMAL cont. Page 2 of 3 Pages

CROP CALENDAR

(Stage Development Timespan)



Source:

Figure 21.- Continued.

Area UNITED STATES **CROP CALENDAR** Date 9 January 1941
Pol/Sub INDIANA - CHD 9 - NORMAL cont. Page 2 of 3 Pages
 (Stage Development Timespan)

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Figure 21.- Concluded.

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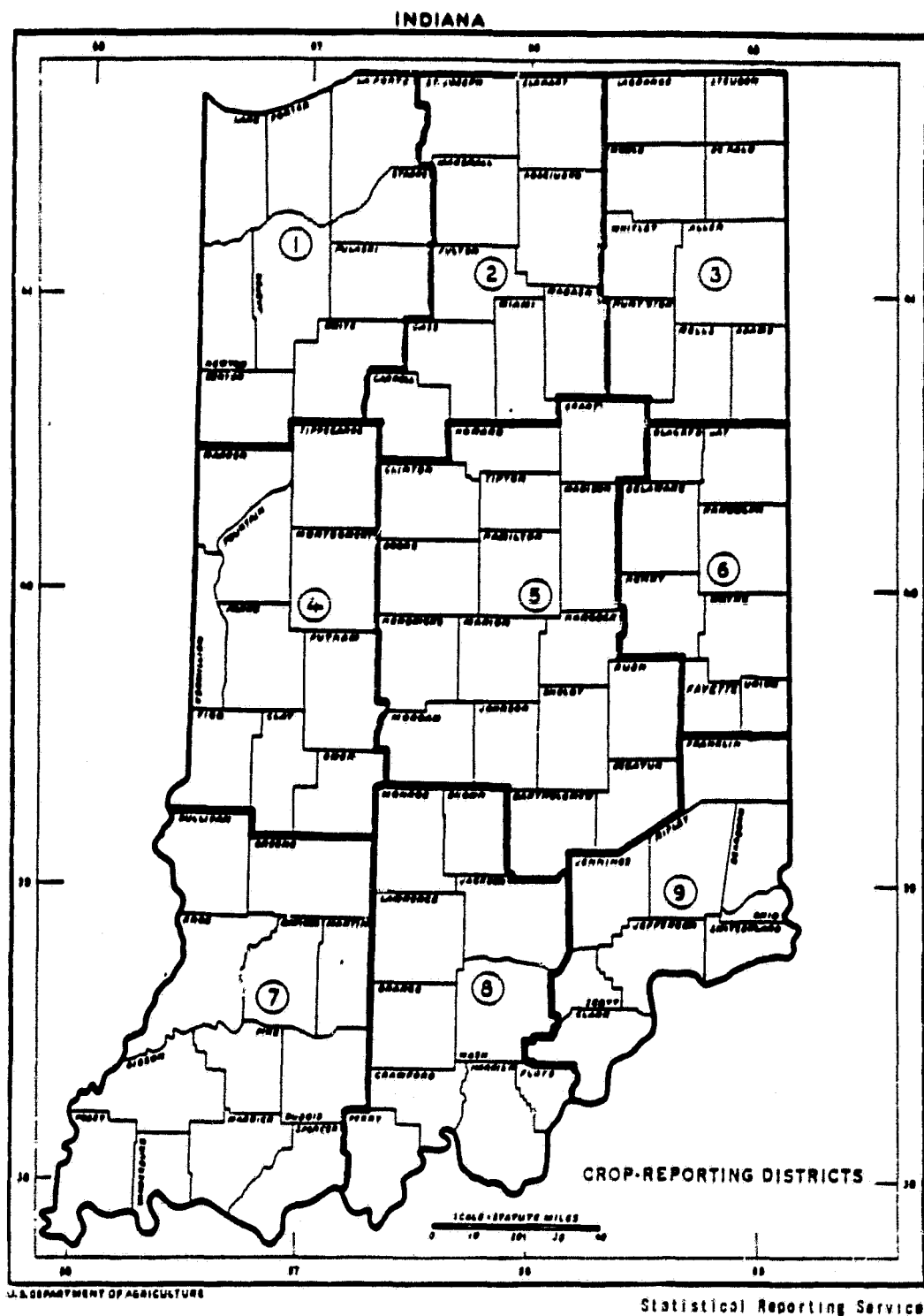
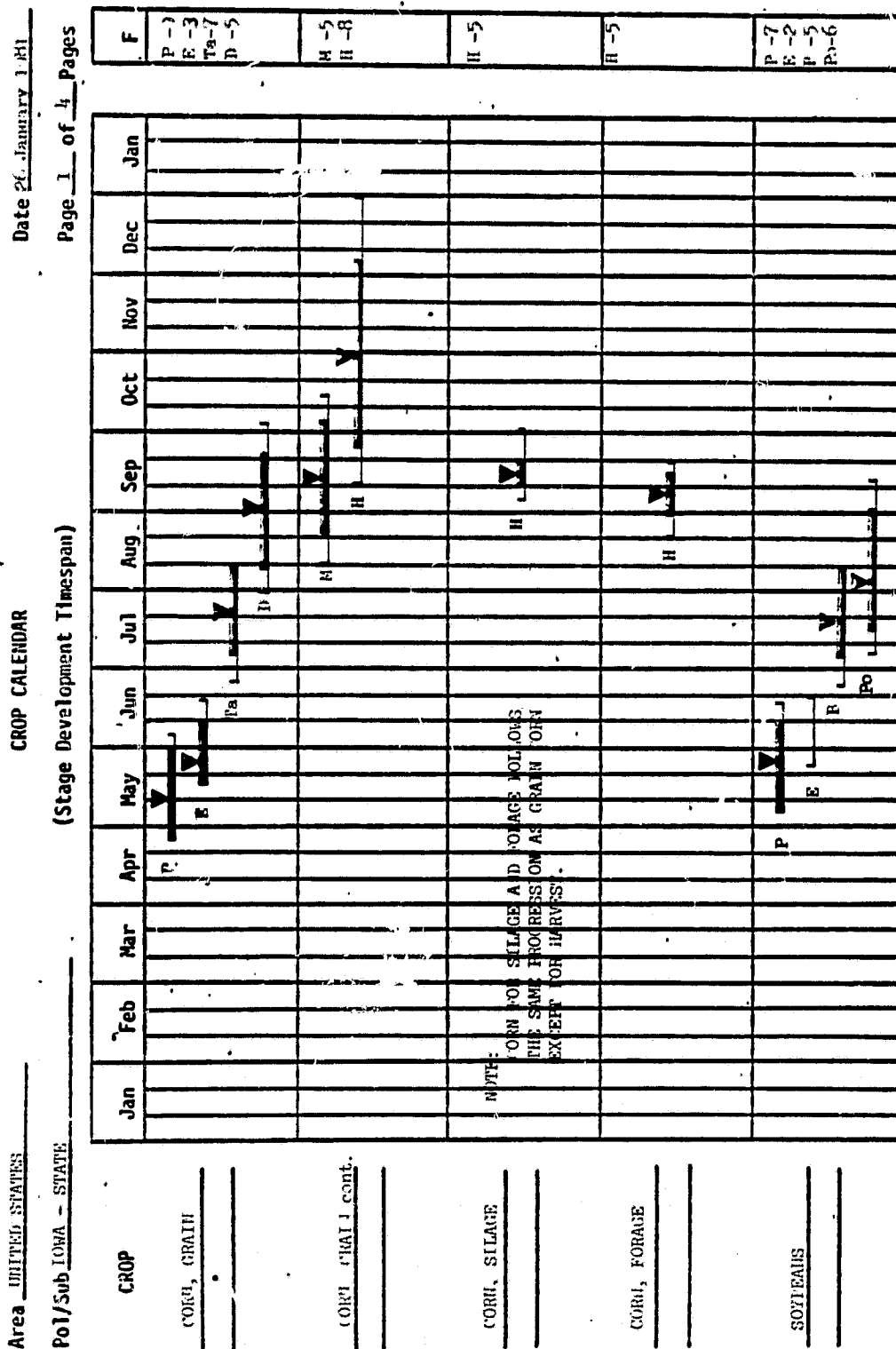


Figure 22.- Map showing Indiana CRD's.



Source: USDA Handbook #283 "Field and Seed Crops Usual Planting and Harvesting Dates", publications of the Iowa Department of Agriculture and unpublished statistics of the United States Department of Agriculture.

Figure 23.- Crop calendar for the state of Iowa.

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Date 26 January 1971

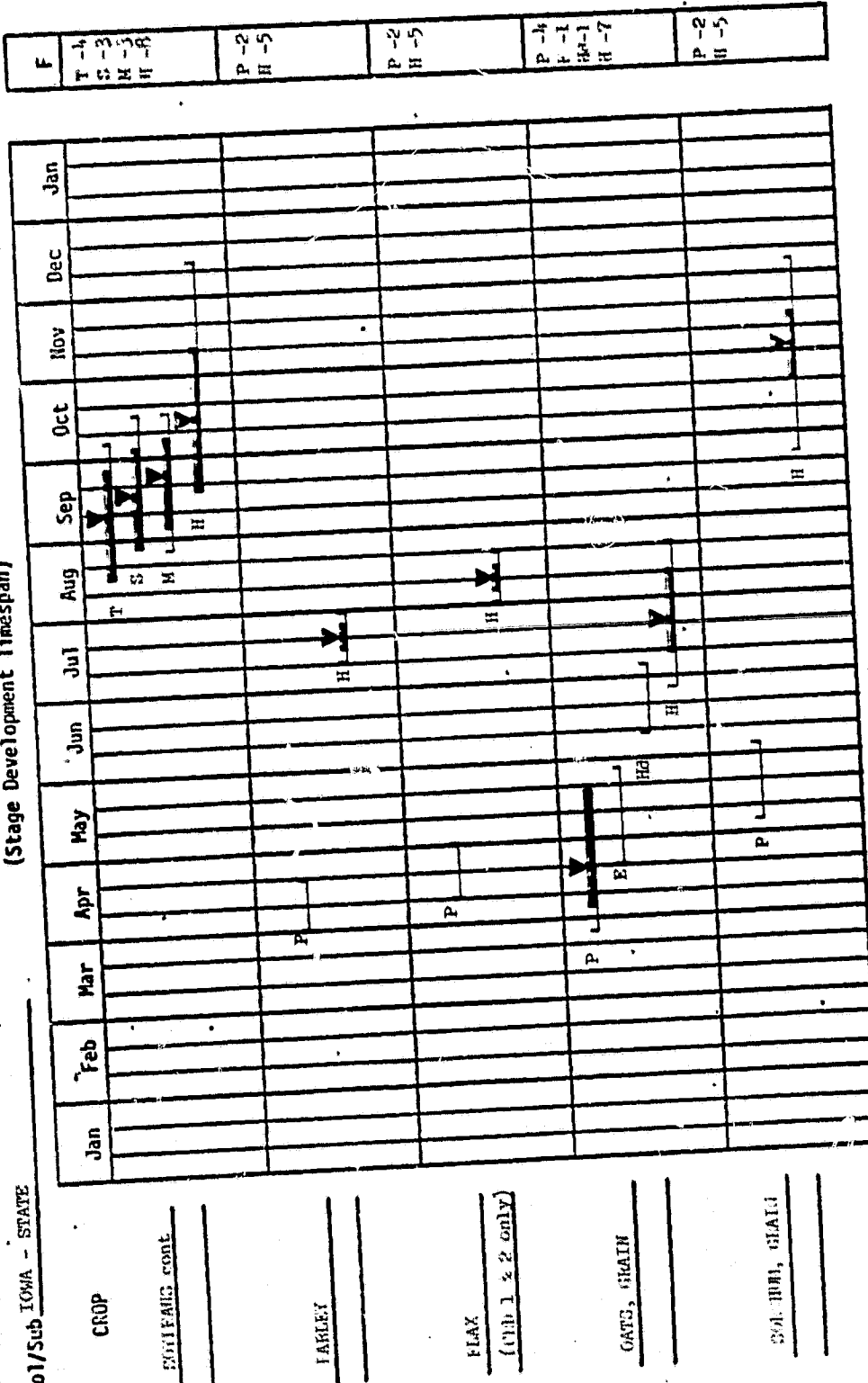
Page 2 of 4 Pages

CROP CALENDAR

(Stage Development Timespan)

Area UNITED STATES

Pol/Sub IOWA - STATE



Source:

Figure 23.- Continued.

CROP CALENDAR

(Stage Development Timespan)

Area

qns/103
IWA - CASE

CROP

CHARLES. CLARK

CHAR FETS

(Copy 2 only)

FILE, WINTER

THE STATE

ALFALFA

Source:

[illegible]

Figure 23.- Continued.

Date 22 March 1964
Page 4 of 4 Pages

(Stage Development Timespan)

POL/SUB IOWA - STATE

OTHER NAME - CLOVER

[illegible]

Figure 23.- Concluded.

Page 1 of 2 pages

CROP CALENDAR

(Stage Development Timespan)

Area UNITED STATES

PO1/Sub

CROP

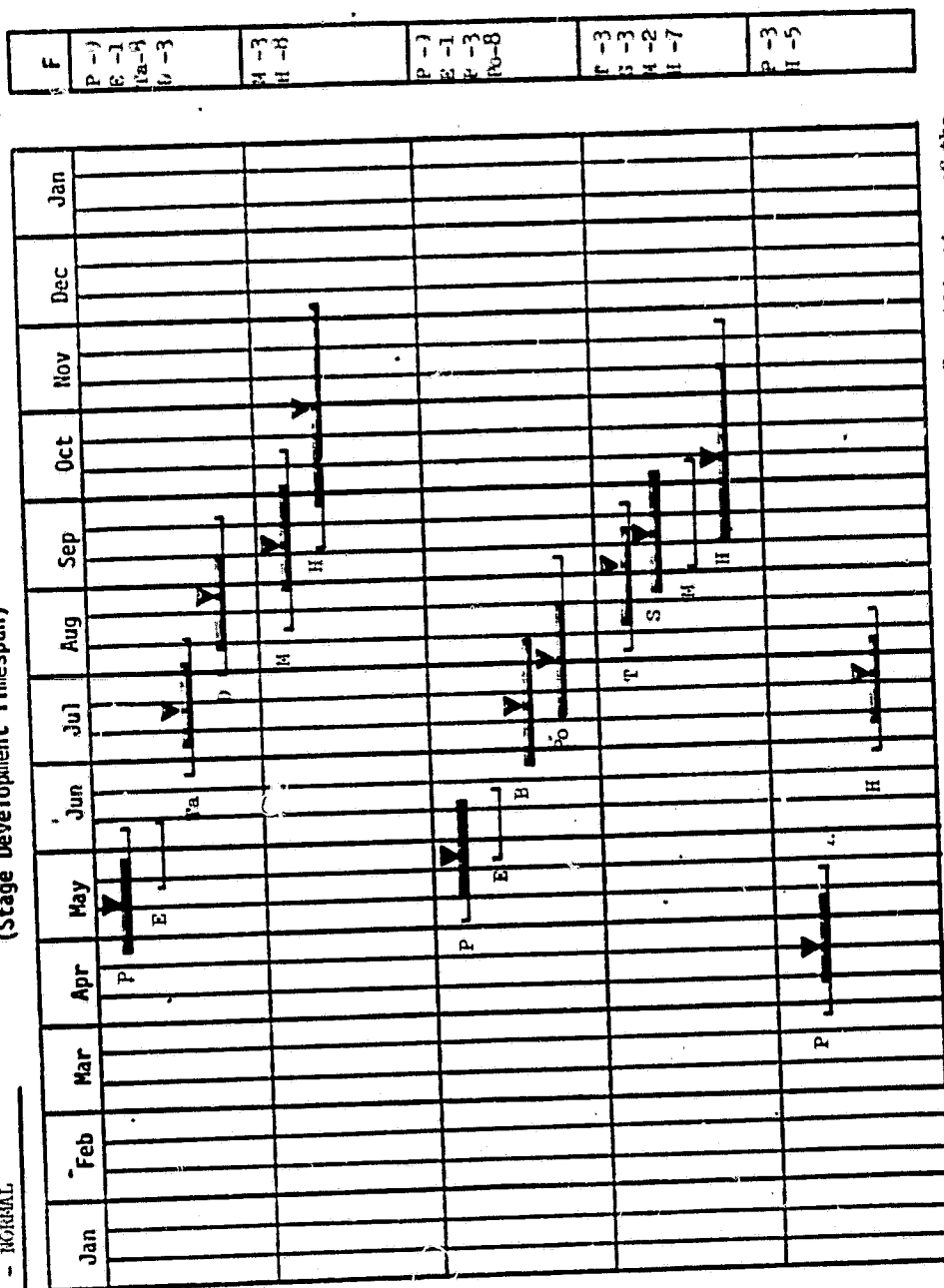
(COGN. GRAIN)

COOL, KATHI cont.

SOYLEANS

SOYBEANS cont.

OATS, GRAIN



USIA Handbook #283 "Field and Seed Crops Usual Planting and Harvesting Dates", publications of the
Source: Iowa Department of Agriculture and unpublished statistics of the U.S. Department of Agriculture.

Figure 24.- Crop calendar for Iowa CRD 1.

CROP CALENDAR

Area **UNITED STATES**

IOWA - CHD 2 - NORMAL
Pol/Sub

(Stage Development Timespan)

Pol/Sub	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
CROP													
WINTER WHEAT													
ALFALFA													
OTHER HAY - CLOVER													

F
 H -3
 P -2
 10-9
 4-6
 4-4

(Stage development line-span)

100A - CRU 1 - 1000AL

INSUFFICIENT DATA TO ESTABLISH TIME LINES.

Source:

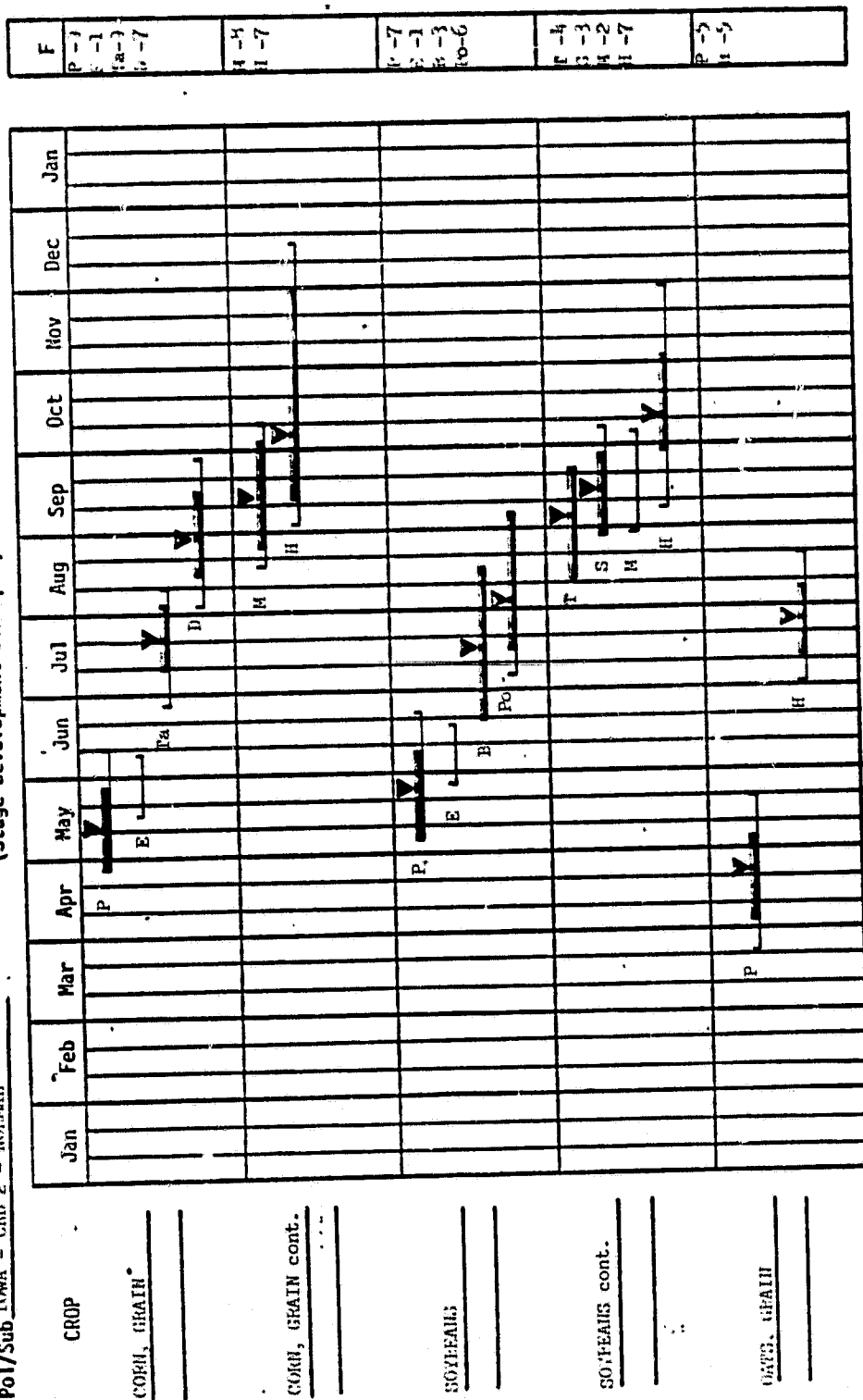
Figure 24.- Concluded.

CROP CALENDAR

Area UNITED STATES

Pol/Sub **IOWA - CRD 2 - KIKHAT,**

(Stage Development Timespan)



USDA Handbook #283 "Field and Seed Crops Usual Planting and Harvesting Dates", publications of the
Source: Iowa Department of Agriculture and unpublished statistics of the U.S. Department of Agriculture.

Figure 25.- Crop calendar for Iowa CRD 2.

ORIGINAL PAGE IS
OF POOR QUALITY

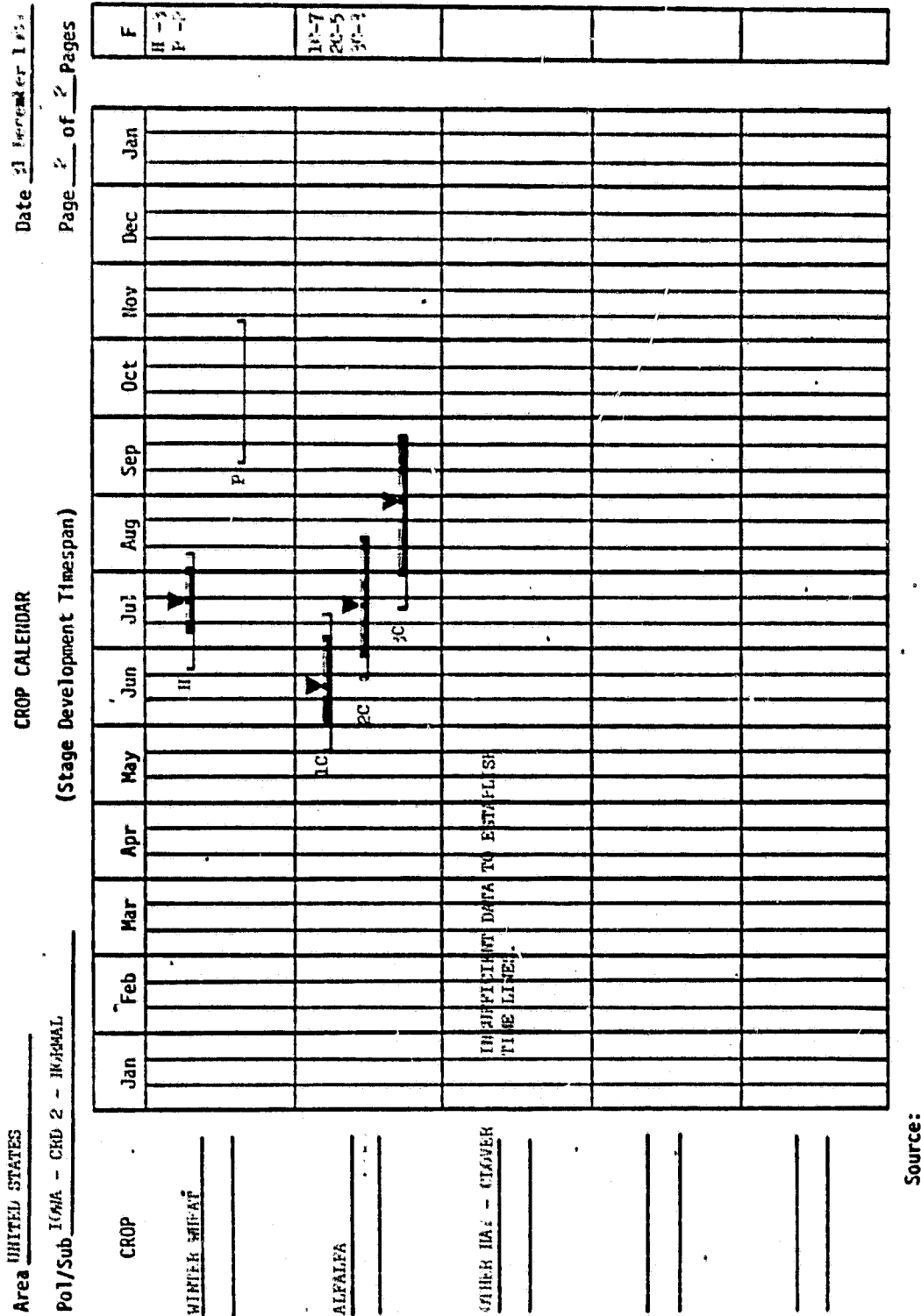
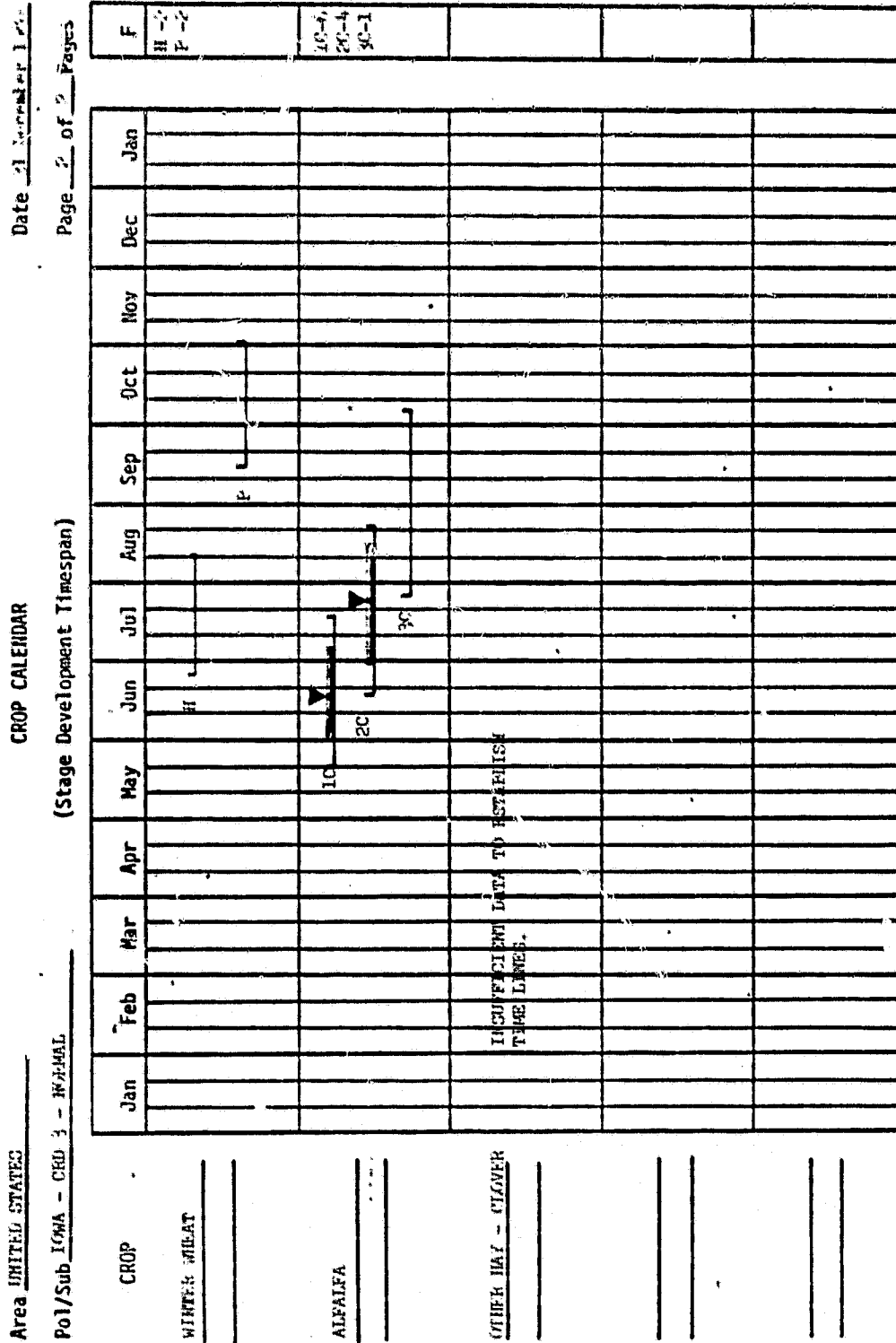


Figure 25.- Concluded.



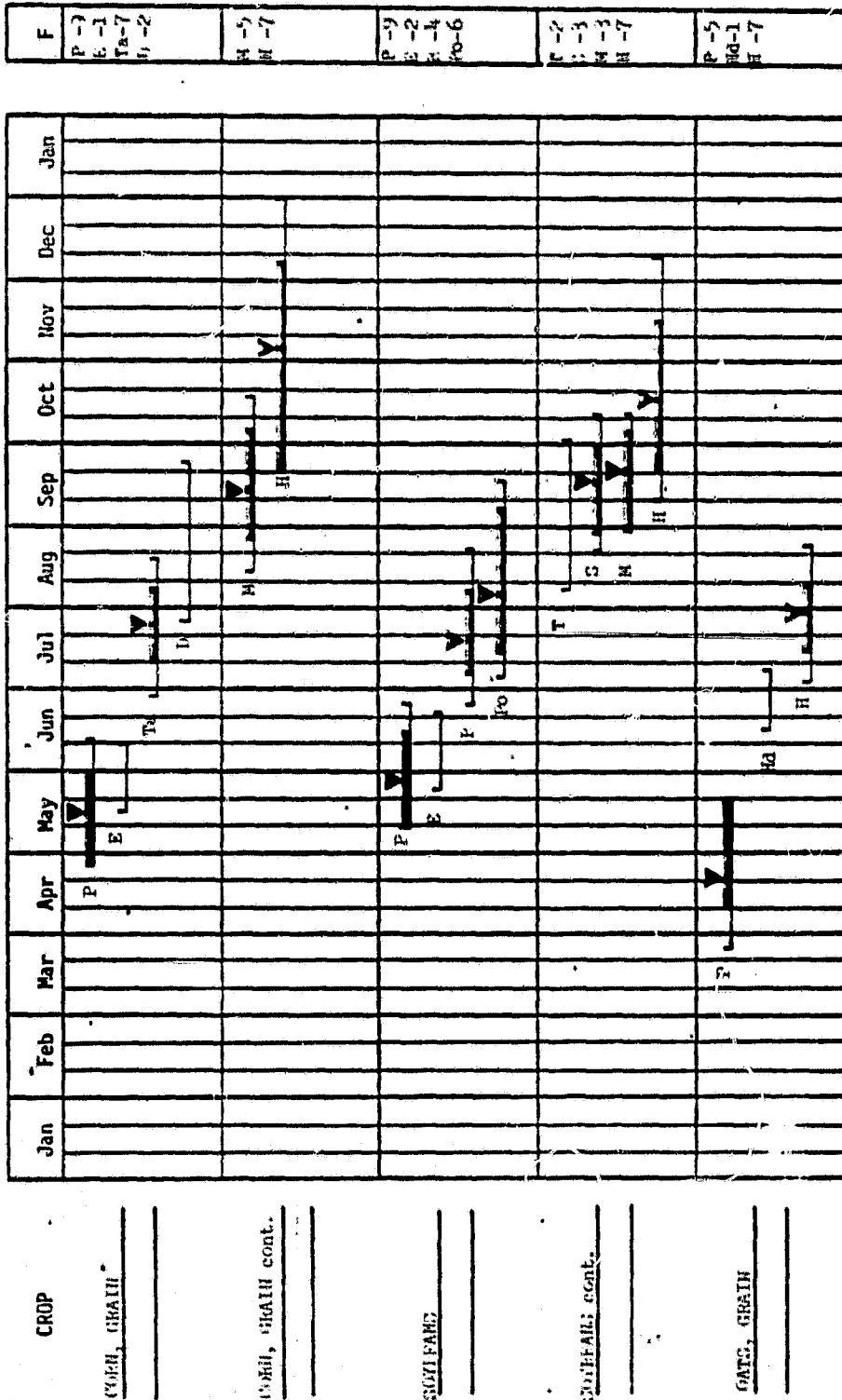
Source:

Figure 26.- Crop calendar for Iowa CRD 3.

Area UNITED STATES Date November 1971
 Pol/Sub IOWA - CRD 3 - MORRIS Page 1 of 2 Pages

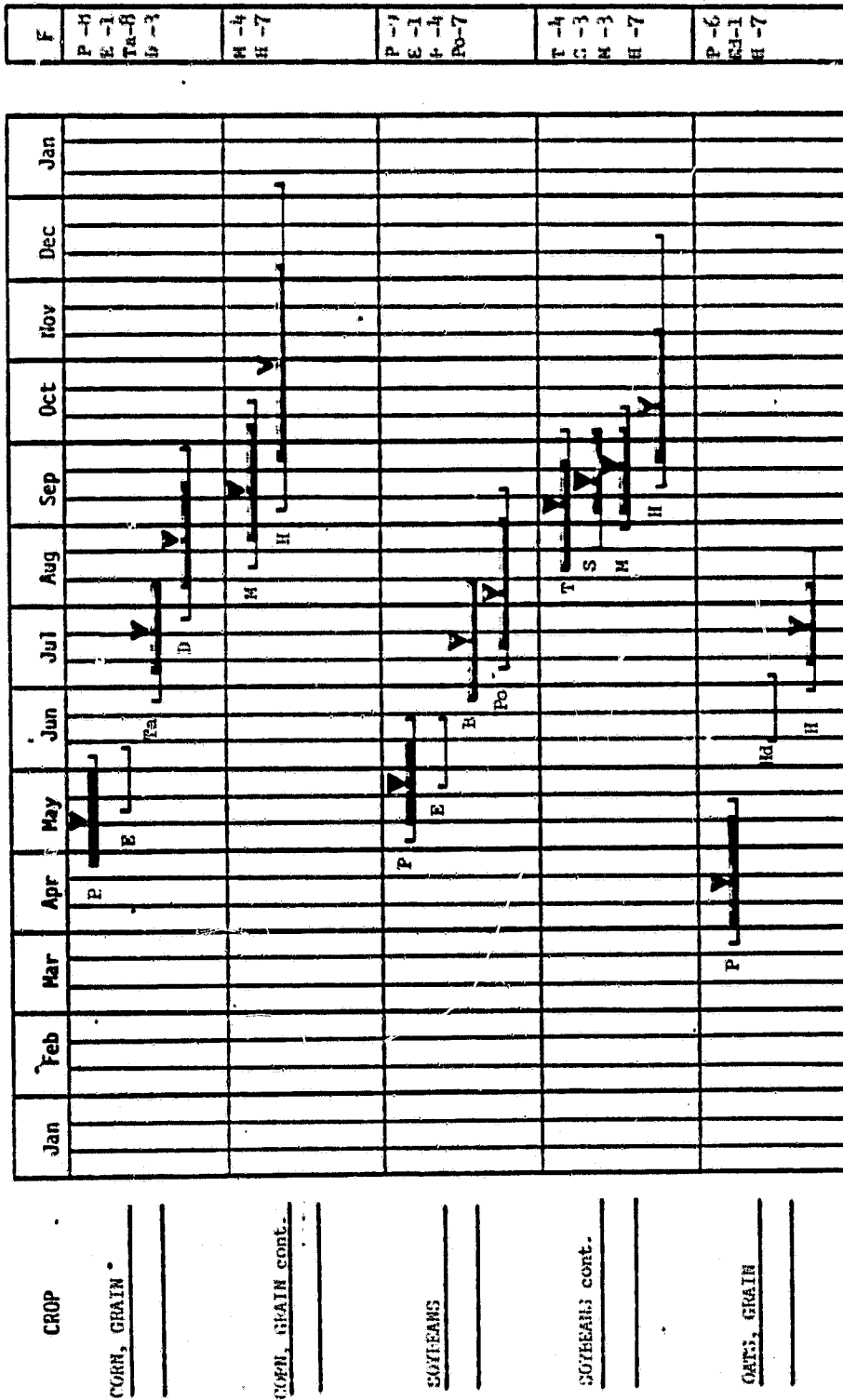
CROP CALENDAR

(Stage Development Timespan)



Source: USDA Handbook #283 "Field and Seed Crops Usual Planting and Harvesting Dates", publications of the Iowa Department of Agriculture and unpublished statistics of the U.S. Department of Agriculture.

Figure 26.- Concluded.



Source: USDA Handbook #283 "Field and Seed Crops Usual Planting and Harvesting Dates", publications of the Iowa Department of Agriculture and unpublished statistics of the U.S. Department of Agriculture.

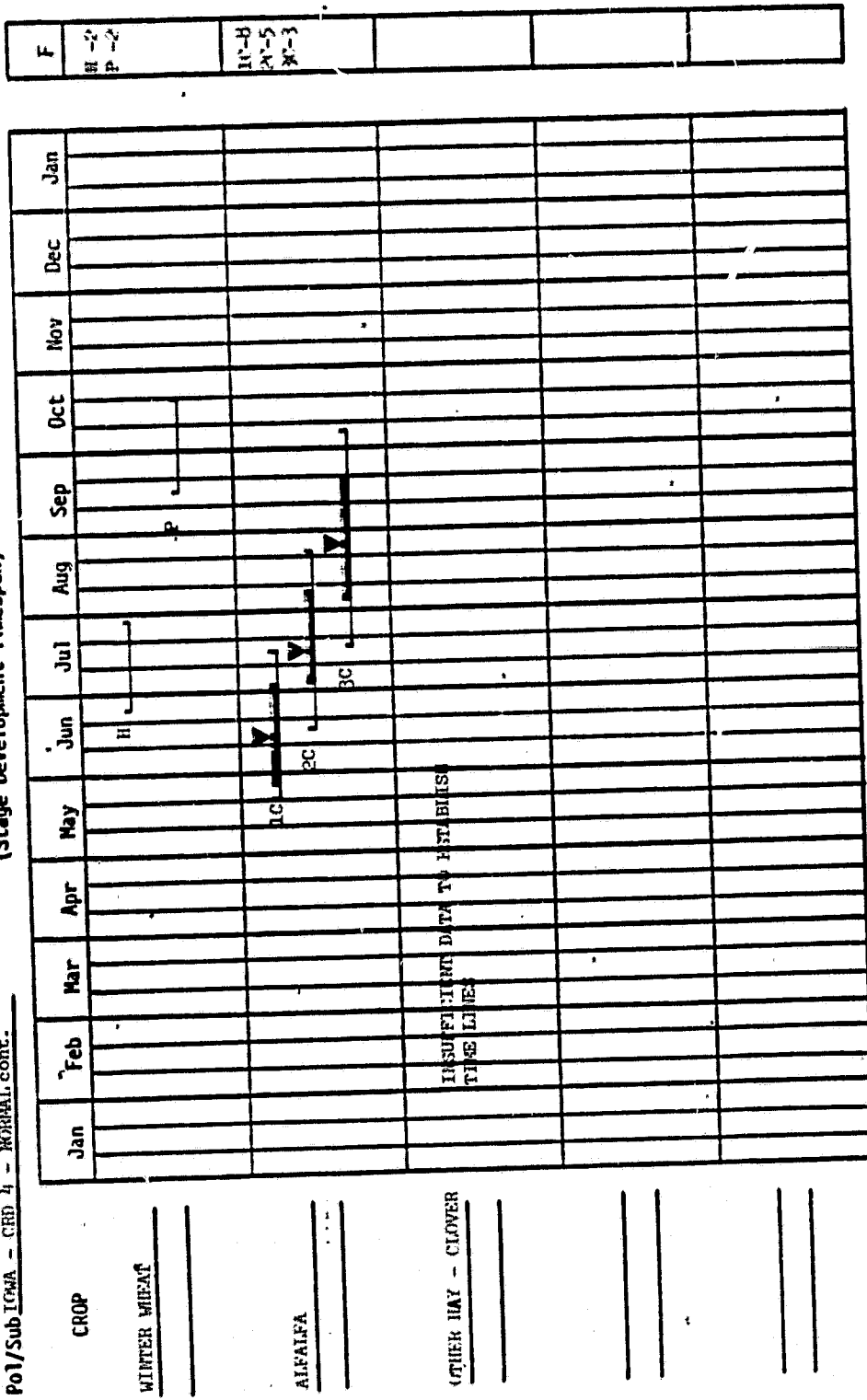
Figure 27.- Crop calendar for Iowa CRD 4.

Date 9 January 1981
Page 2 of 2 Pages

CROP CALENDAR

(Stage Development Timespan)

Area UNITED STATES
Pol/Sub ICMA - CRD 4 - NORMAL cont.



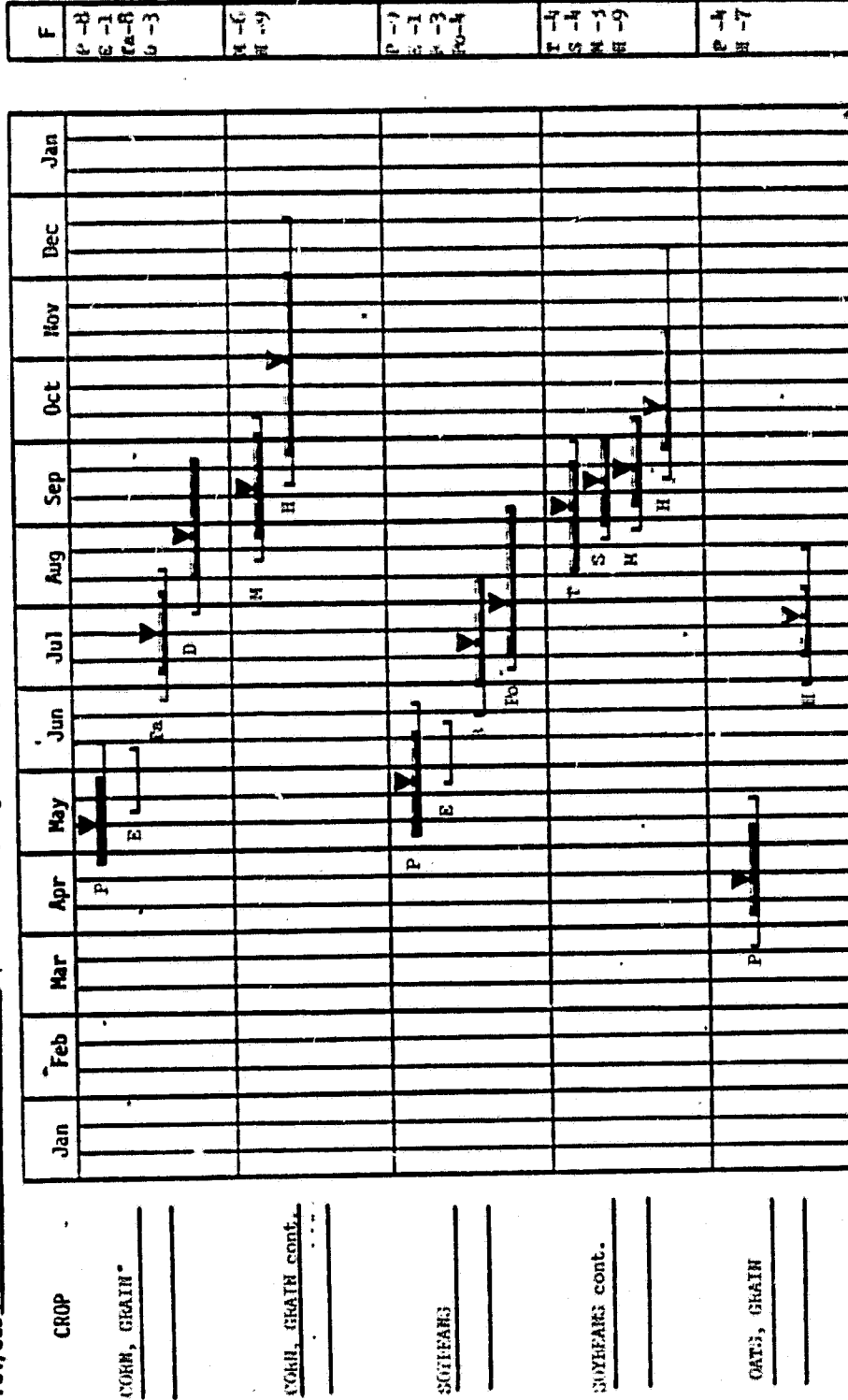
Source:

Figure 27.- Concluded.

Area UNITED STATES _____ Date 5, January 1941
Pol/Sub IOWA - CRD 5 - NORMAL _____ Page 1 of 2 Pages

CROP CALENDAR

(Stage Development Timespan)



Source: USDA Handbook #283 "Field and Seed Crops Usual Planting and Harvesting Dates", publications of the
Iowa Department of Agriculture and unpublished statistics of the U.S. Department of Agriculture.

Figure 28.- Crop calendar for Iowa CRD 5.

CROP CALENDAR

(Stage Development Timespan)

Area UNITED STATES

PO1/Sub IOWA - CHU 5 - NORMAL cont.

CROP	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
WINTER WHEAT						H	V	P					
ALFALFA					IC	V	BC	V					
OTHER HAY - CLOVER						2C							

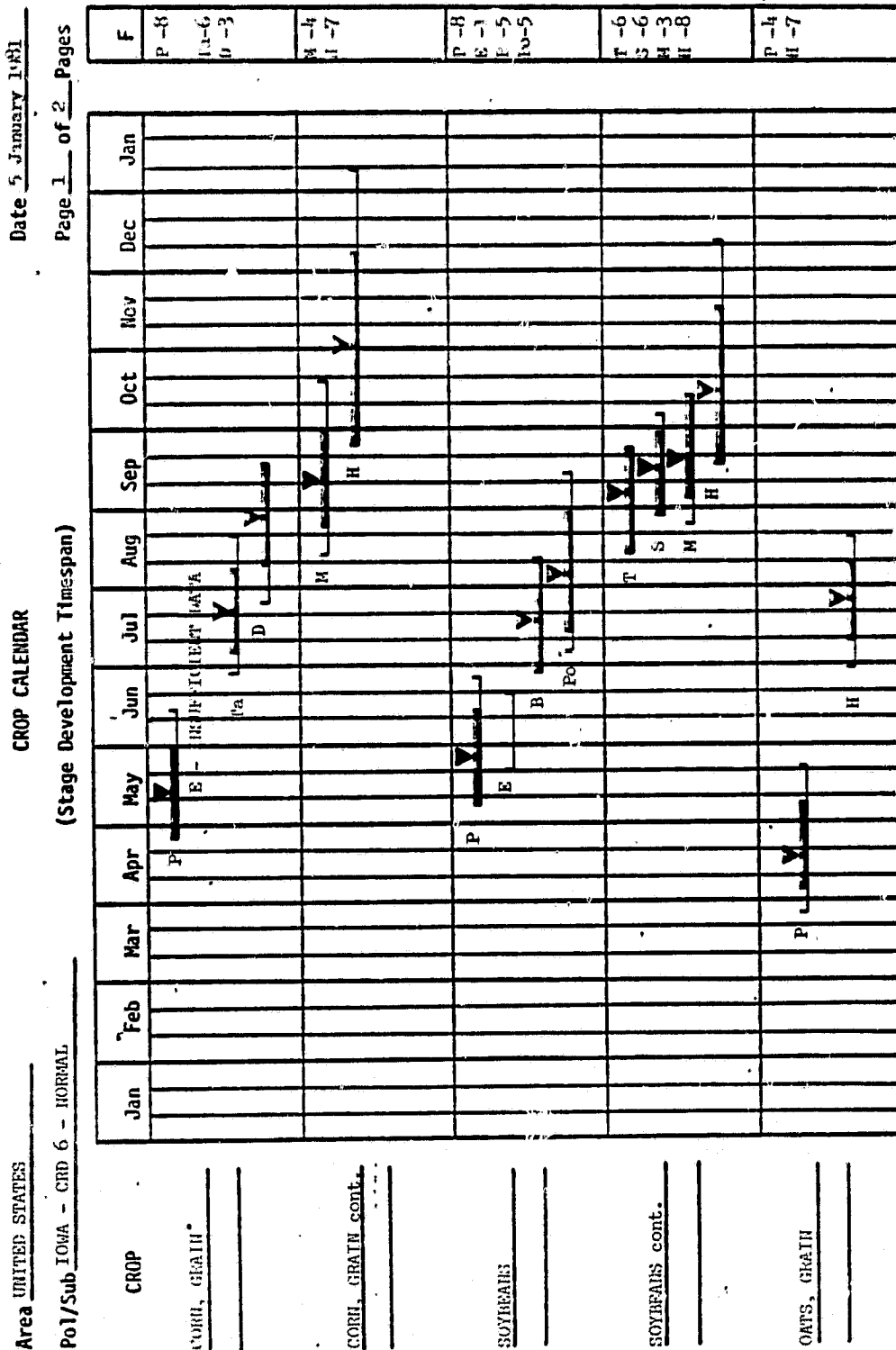
F
H-3
P-1

RC-6
NC-7
X-3

INSUFFICIENT DATE TO ESTABLISH TIME LINES

Source:

Figure 28.- Concluded.



Source: USDA Handbook # 283 "Field and Seed Crops Usual Planting and Harvesting Dates", publications of the Iowa Department of Agriculture and unpublished statistics of the U.S. Department of Agriculture.

Figure 29.- Crop calendar for Iowa CRD 6.

Date 10-1-61

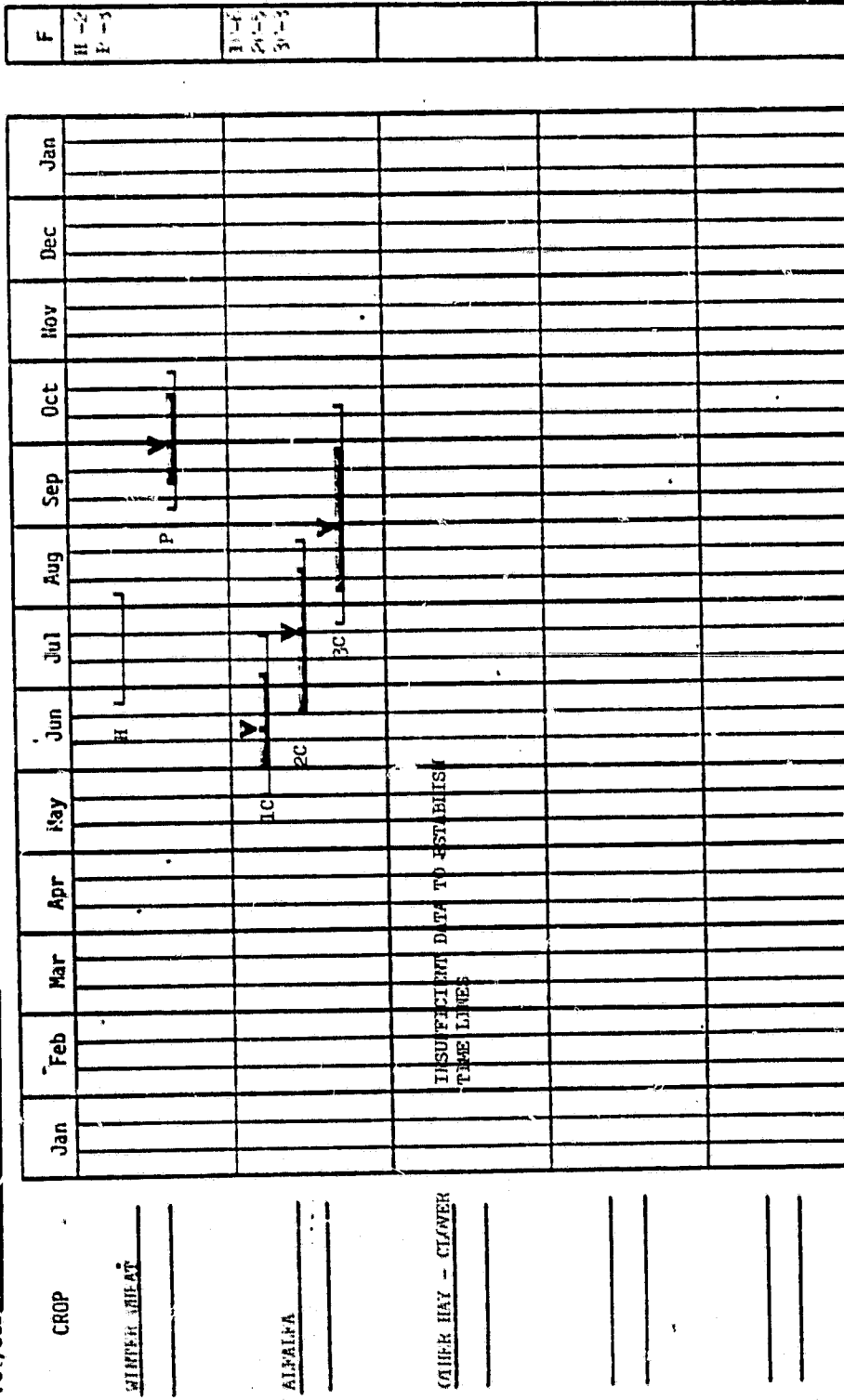
Page 2 of 2 Pages

CROP CALENDAR

(Stage Development Timespan)

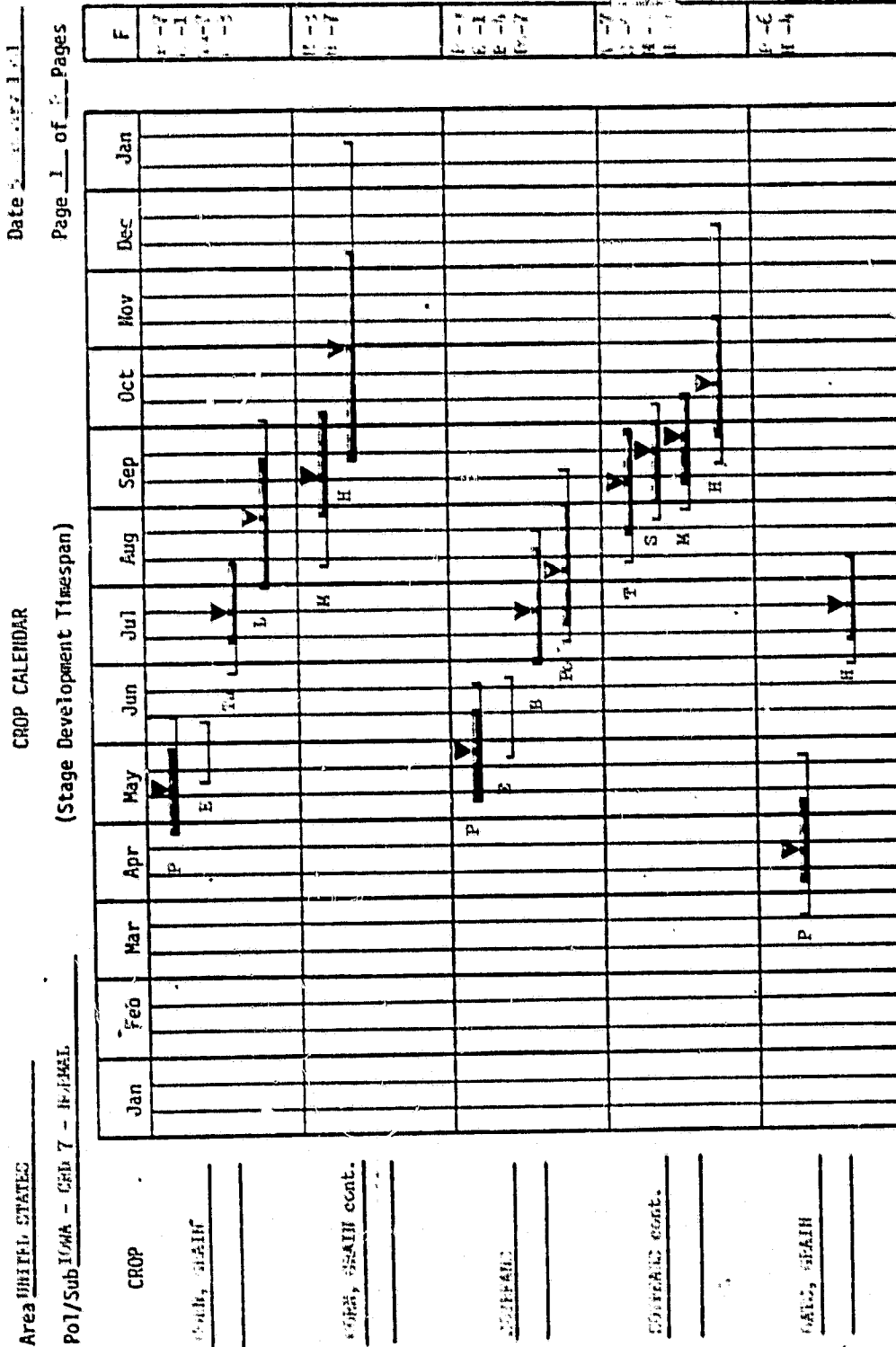
Area UNITED STATES

Fol/Sub IOGA - CRO 6 - NORMAL cont.



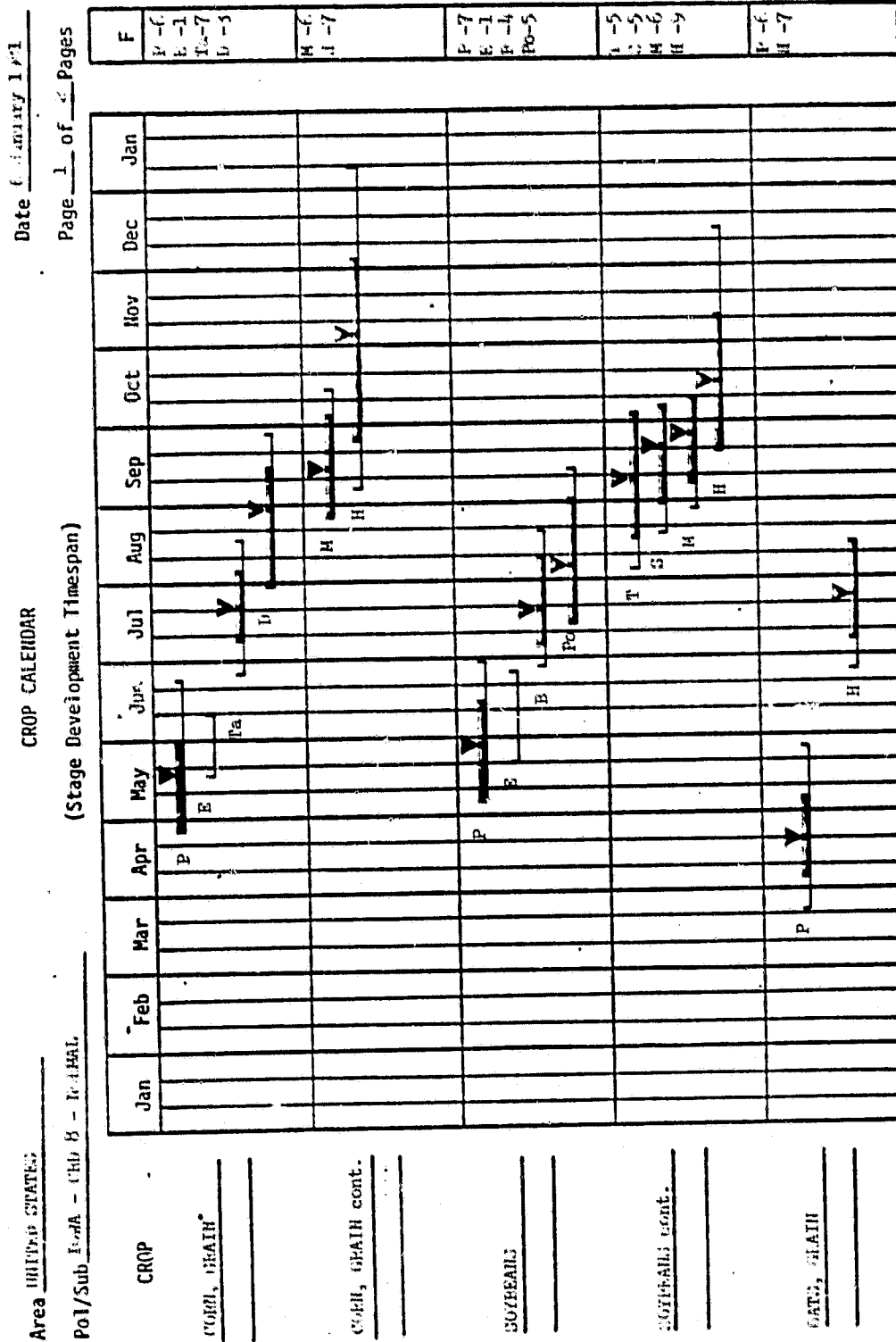
Source:

Figure 29.- Concluded.



Source: USDA Handbook # 28; "Field and Seed Crops: Annual Planting and Harvesting Date", published by the Iowa Department of Agriculture and unpublished statistics of the U.S. Department of Agriculture.

Figure 30.- Crop calendar for Iowa CRD 7.



Source: USDA Handbook # 283 "Field and Seed Crops Usual Planting and Harvesting Dates", publications of the Iowa Department of Agriculture and unpublished statistics of the U.S. Department of Agriculture.

Figure 31.- Crop calendar for Iowa CRD 8.

CROP CALENDAR

(Stage Development Timespan)

Area UNITED STATES

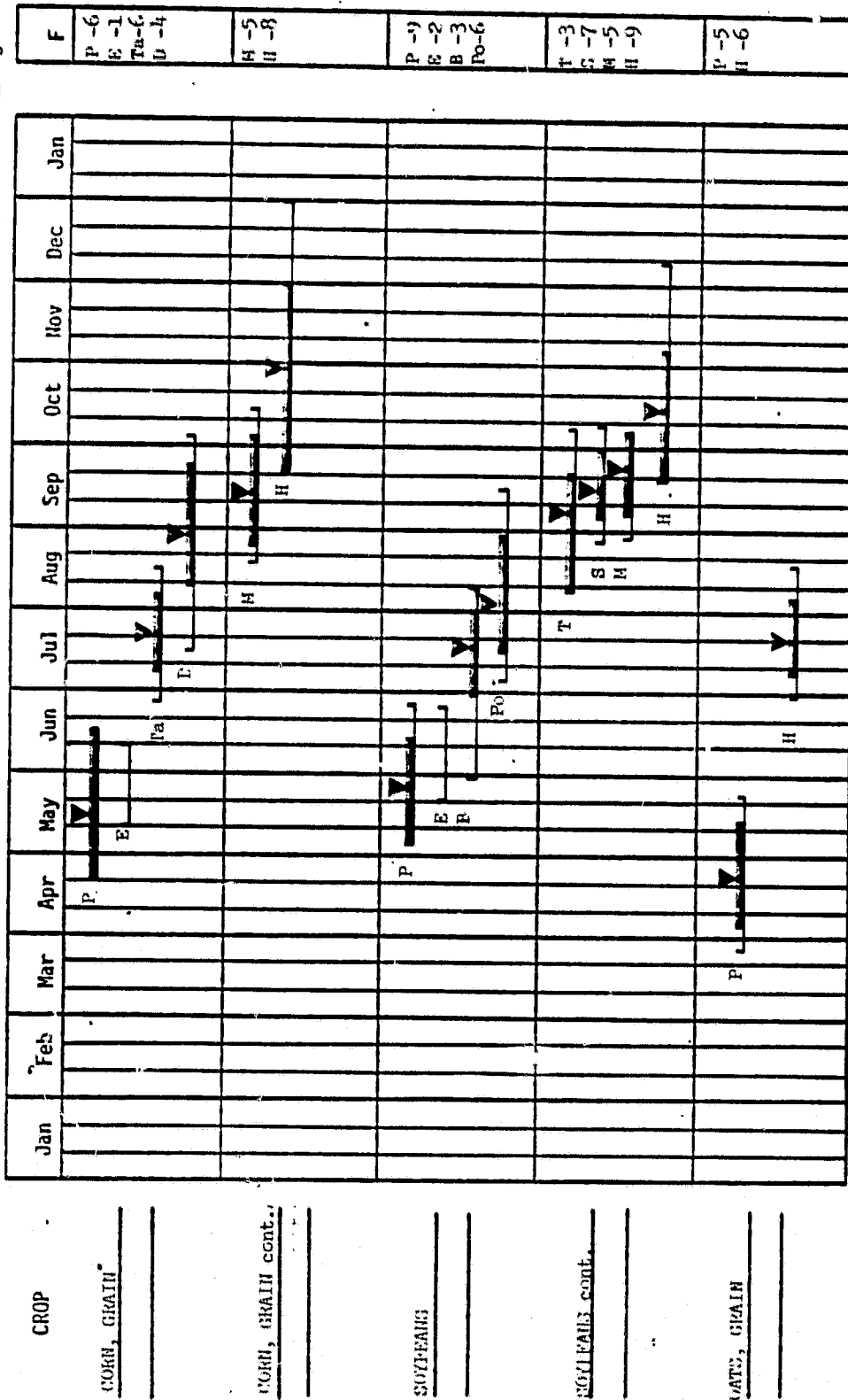
Pol/Sub IOWA - CRD 8 - NORMAL cont.

[illegible]

Source:

Figure 31.- Concluded.

Area UNITED STATES Date 6 January 1971
IOWA - CRD 9 - NORMAL Page 1 of 2 Pages
 CROP CALENDAR
 (Stage Development Timespan)



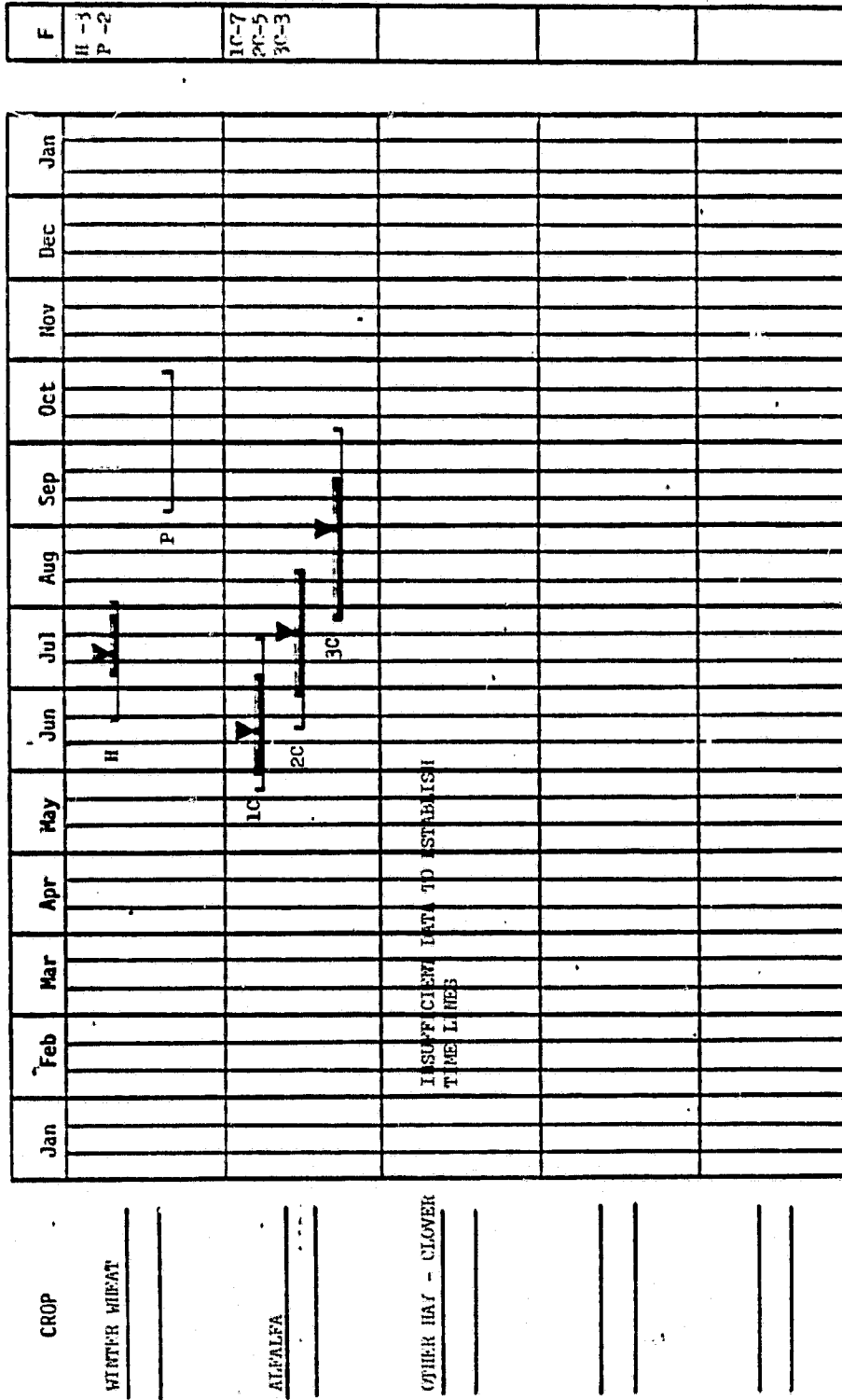
Source: USDA Handbook # 283 "Field and Seed Crops Usual Planting and Harvesting Dates", publications of the Iowa Department of Agriculture and unpublished statistics of the U.S. Department of Agriculture.

Figure 32.- Crop calendar for Iowa CRD 9.

Area UNITED STATES Date January 1961
 Pol/Sub IOWA - CRD 9 - NORMAL cont. Page 2 of 2 Pages

CROP CALENDAR

(Stage Development Timespan)



Source:

Figure 32.- Concluded.

IOWA

CROP-REPORTING DISTRICTS

SCALE - STATUTE MILES
0 10 20 30 40 50

Statistical Reporting Service

U S DEPARTMENT OF AGRICULTURE

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